

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



**Complaint Investigation
URI, Kingsville Dome Facility
Area Permit No: UR02827**

RN102380763

**ATTACHMENT 17
Electronic Communications**

Incident No.: 202603

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Friday, August 22, 2014 3:43 PM
To: [REDACTED]
Cc: Dale Kohler; Derek Eades; Don Redmond; Diane Goss; Lorrie Council; Fred Duffy; Gary Smith
Subject: Your Complaint

Dear [REDACTED]

The TCEQ has received your complaint dated August 6, 2014, related to the Garcia Hill water well (W-24) located in Kleberg County near the city of Kingsville. Your complaint has been assigned to Mr. Muhammadali Abbaszadeh and has been given an incident number 202603. The TCEQ is reviewing your complaint for appropriate action. Meanwhile, please do not hesitate to contact me with any additional information you may have or if you need further assistance. My contact information is listed below.

Muhammadali Abbaszadeh, Health Physicist
UIC & Radioactive Materials Compliance Coordinator/Investigator
Critical Infrastructure Division
Homeland Security Section
Office of Compliance and Enforcement
Texas Commission on Environmental Quality
muhammadali.abbaszadeh@tceq.texas.gov
Office: (512) 239-6078
Mobile: 512-438-9812

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Friday, August 29, 2014 3:34 PM
To: [REDACTED]
Subject: Our Visit

[REDACTED]

Following up on our phone conversation on 8/28/2014, Dale Kohler and I will meet you at the Garcia Hill around 9:00 a.m. on 9/4/2014. Please do not hesitate to contact me with any comments/questions you may have. Have a great weekend.

Muhammadali Abbaszadeh, Health Physicist
UIC & Radioactive Materials Compliance Coordinator/Investigator
Critical Infrastructure Division
Homeland Security Section
Office of Compliance and Enforcement
Texas Commission on Environmental Quality
muhammadali.abbaszadeh@tceq.texas.gov
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Mobile: 512-438-9812

Muhammadali Abbaszadeh

From: [REDACTED]
Sent: Tuesday, October 07, 2014 4:33 PM
To: Muhammadali Abbaszadeh
Subject: Fw: Complaint water well contamination-Garcia Hill
Attachments: Memo to TCEIP-Huhammad and Dale Kohler 09-20-2014.docx

On Monday, September 22, 2014 9:41 AM, [REDACTED] wrote:

Dale, Muhammad,

Hope you had a great weekend. Please see the attached. Have the completed the report of our meeting at Garcia Hill?

Thanks
[REDACTED]

Memo

September 20, 2014

To: Muhammadali Abbaszadeh, Dale Kohler

From: [REDACTED]

With reference to my complaint regarding water well contamination of Garcia W-24, please consider the following information:

You need to determine how much uranium was in place initially in Water well W-24 and compare to the well logs for the water wells from the City of Kingsville. You can get a copy of the Well Log for W-24 from URI and the well logs for the City of Kingsville are available from TCEQ. If you compare the well logs for W-24 and the logs for the Kingsville water wells and if you find that they are similar then you can eliminate the possibility that the contamination of Well W-24 is due to high on-site levels of natural uranium at the well site.

Then you can compare the amount of oxygen being introduced by water well pumps by the City of Kingsville with the oxygen that is being introduced by the water well pump at W-24. If the argument is made that uranium is being made soluble by oxygen at W-24 being introduced by the pump, then why has the considerably larger pumps for the City of Kingsville not caused uranium levels to go to over 1,000 mcg/l?

Also, W-24 was drilled by a Uranium mining company and it is not reasonable that they would not test the water quality right after the well was drilled, that is their business. I would officially ask for all water well data on W-24 so that such refusal is on the record. Water well data for W-24 only is available.

I believe that the Martinez well is W-20.

Muhammad said at our meeting at Garcia Hill that you would expect Radium to be very high at W-24 if the contamination was caused by migration of drilling fluids from adjacent PAA3 but that is not true. Rich Abitz has shown that radium Does Not Travel as uranium and is not mobile.

W-25 was drilled on May, 1967 and it was screened from 610-631 feet (Look at drillers

(Drillers Report)

W-24 was drilled to about 800 ft. (Railroad Commission))

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Thursday, October 09, 2014 10:33 AM
To: [REDACTED]
Subject: RE: Complaint water well contamination-Garcia Hill

[REDACTED]

Thank you for the information. With respect to your statement "Muhammad said at our meeting at Garcia Hill that you would expect Radium to be very high at W-24 if the contamination was caused by migration of drilling fluids from adjacent PAA3 but that is not true", there is apparently a misinterpretation of what we said with respect to the radium-226 values. To clarify, when we were discussing the water sample results at our meeting on September 4, 2014, I mentioned that based on the sample results, radium-226 concentrations were low and that typically the concentrations of uranium and radium-226 are higher in the mining solution. We did not discuss or mention the mobility of radium-226 or potential contamination of uranium or radium-226 from PAA3 and did not mean to imply that there is or is not contamination from PAA 3. Mr. Kohler and I stated that we are conducting this investigation to gather as much information as possible to determine whether migration of mining solution from PAA3 has occurred.

With respect to the report completion for our meeting, as discussed during our phone conversation on 10/7/2014, I mentioned that the report has not been completed. The report on our meeting should be completed within the next two weeks. We will inform you once the report is completed. Please do not hesitate to contact me with any comments/questions you may have.

Muhammadali Abbaszadeh, Health Physicist
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muhammadali.abbaszadeh@tceq.texas.gov
Office: (512) 239-6078
Mobile: 512-438-9812

From: [REDACTED]
Sent: Tuesday, October 07, 2014 4:33 PM
To: Muhammadali Abbaszadeh
Subject: Fw: Complaint water well contamination-Garcia Hill

On Monday, September 22, 2014 9:41 AM, [REDACTED] wrote:

Dale, Muhammad,

Hope you had a great weekend. Please see the attached. Have the completed the report of our meeting at Garcia Hill?

Thanks

[REDACTED]

Muhammadali Abbaszadeh

From: Dale Kohler
Sent: Thursday, October 23, 2014 12:33 PM
To: [REDACTED]
Cc: Muhammadali Abbaszadeh
Subject: Complaint Report

[REDACTED]

I wanted to update you on our progress about the complaint filed with the TCEQ regarding the Garcia Hill well and other concerns. We are still in the process of investigating the complaint. As you know, the issues are complicated and we want to make sure and obtain current and correct information as well as research all available resources and material. When the complaint investigation is final, we will provide you a copy of the report. Thank you for your patience and please contact me if you have any questions.

Dale Kohler
TCEQ Critical Infrastructure Liaison
(512) 239-6636

Muhammadali Abbaszadeh

From: [REDACTED]
Sent: Monday, October 27, 2014 10:30 AM
To: Dale Kohler; Muhammadali Abbaszadeh; Derek Eades; [REDACTED]
Subject: Investigation-Contamination of Garcia Hill Drinking Water Well

Mr. Kohler,

As per our conversation by phone last week, I am listing wells which I think should be tested again as part of your investigation:

- a. some of the monitor wells (MW) 89-93 which tested very high in Uranium in the past
- b. AA wells in the northwest corner of PAA 3. The WW 24 was drilled into the AA sand if you look at the logs of WW24 and logs of PAA 3.
- c. The Martinez Well which I think is WW 20.
- d. At some point should test the drinking water wells of Oliver Hinojosa (Hamilton well) and the drinking water well of Ferman Garza (Both next to Garcia Hill in the direction of Kingsville)

As mentioned in a previous e-mail, the logs of the Kingsville water wells and WW-24 should be compared. If they are identical, and if both have pumped water, then you can dispel the theory that the Uranium contamination in the Garcia Hill well (WW 24) is naturally occurring. The Kingsville water well logs are on File at TCEQ.

Thanks

[REDACTED]

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Friday, January 09, 2015 4:50 PM
To: [REDACTED]
Subject: FW: Complaint/Groundwater Sampling
Attachments: URIKVD.PAA#MWAA25.AA30.86.11.13.2014.RAD.pdf;
URIKVD.PAA3MW78.AA24.84.85.10.29.14.RAD.pdf;
URIKVD.PAA3MWAA25.AA30.86.11.13.2014.Metals.pdf;
URIKVD.PAA3MW78AA24.84.85.metals.10.29.14.pdf

[REDACTED]

Attached are the radiological and metal results for water samples collected by TCEQ staff at the URI, Kingsville Dome site on 10/29/2014 and 11/13/2014. This completes the results for all samples collected on 10/14/2014, 10/29/2014, and 11/13/2014. Please do not hesitate to contact me with any comments/questions you may have

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Tuesday, January 06, 2015 1:53 PM
To: [REDACTED]
Subject: RE: Complaint/Groundwater Sampling

[REDACTED]

Attached are the radiological results for water samples collected by TCEQ staff from the Garcia Hill active well (aka WW-24) and Nazario Martinez residence on 10/14/2014. Please do not hesitate to contact me with any comments/questions you may have. I will send you the results for sampling events on 10/29/2014 and 11/13/2014, once I receive them from the laboratory. Please do not hesitate to contact me with any comments/questions.

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Monday, January 05, 2015 4:42 PM
To: [REDACTED]
Subject: RE: Complaint/Groundwater Sampling

[REDACTED]

Attached are some of the results I have received from the state laboratory. I will send you the remaining results once I receive them from the laboratory. The sampling events conducted by TCEQ at the Garcia Hill and/or URI Kingsville Dome site occurred on 10/14/2014, 10/29/2014, and 11/13/2014. Please note Please do not hesitate to contact me with any comments/questions you may have.

Muhammadali Abbaszadeh, Health Physicist
UIC & Radioactive Materials Compliance Coordinator/Investigator
Critical Infrastructure Division
Homeland Security Section
Office of Compliance and Enforcement
Texas Commission on Environmental Quality
muhammadali.abbaszadeh@tceq.texas.gov
Office: (512) 239-6078
Mobile: 512-438-9812

From: Muhammadali Abbaszadeh
Sent: Thursday, December 25, 2014 11:49 AM
To: [REDACTED]
Cc: Dale Kohler
Subject: Re: Complaint/Groundwater Sampling

[REDACTED]
Happy holidays to you. I am out of state. I will be back on 1/5/2015. I did not have all the results as of 12/19/2014. When I get back I will contact you and will give you an update on the status of the results.

Regards,
M. Abbaszadeh

Sent from my iPhone

On Dec 22, 2014, at 6:45 PM, [REDACTED] wrote:

Muhammad,
Happy holidays. Could I have a copy of the results. Let me know.
Thanks
[REDACTED]

Sent from my iPhone

On Nov 24, 2014, at 10:49 AM, Muhammadali Abbaszadeh
<Muhammadali.Abbaszadeh@tceq.texas.gov> wrote:

[REDACTED]
The purpose of this e-mail is to inform you that the TCEQ has completed the groundwater sampling at URI, Kingsville Dome facility. The samples have been submitted to the Department of State Health Services for analyses.

Muhammadali Abbaszadeh, Health Physicist
UIC & Radioactive Materials Compliance Coordinator/Investigator
Critical Infrastructure Division
Homeland Security Section
Office of Compliance and Enforcement
Texas Commission on Environmental Quality
muhammadali.abbaszadeh@tceq.texas.gov
Office: (512) 239-6078

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Friday, March 13, 2015 2:14 PM
To: [REDACTED]
Cc: Dale Kohler
Subject: RE: Complaint/Phone Conversation on 2/24/2015

[REDACTED]

Based on recent conversations with you and [REDACTED] my understanding was that W-24 pump was not working. In my e-mail below I am stating that TCEQ does not cover the cost of installing a pump. The TCEQ has no objection paying for the cost of analysis for samples collected from W-24 water well by TCEQ during this investigation. I also stated based on the current status of the well and unavailability of appropriate equipment, it is not possible to collect sample directly from the well at this time. I further stated if it was possible to collect sample directly from the well, the TCEQ would be willing to do so. I apologize for any misunderstanding. Please do not hesitate to contact me with any comments/questions you may have.

Regards,

Muhammadali Abbaszadeh

From: [REDACTED]
Sent: Thursday, March 12, 2015 9:40 PM
To: Muhammadali Abbaszadeh
Subject: Re: Complaint/Phone Conversation on 2/24/2015

Muhammad,

I did not ask for TCEQ to replace the pump but rather that TCEQ pay to get the well tested by whatever means, which is what you stated that you wanted to do. I don't understand where the miscommunication occurred.

[REDACTED]

On Wednesday, March 11, 2015 1:24 PM, Muhammadali Abbaszadeh <Muhammadali.Abbaszadeh@tceq.texas.gov> wrote:

[REDACTED]

With respect to your question related to the cost of installing a pump in Garcia Hill W-24 water well, it is not TCEQ's policy to cover the cost of the installation of a pump in a private water well. Please do not hesitate to contact me with any comments/questions you may have.

Regards,

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Monday, March 02, 2015 9:33 AM
To: [REDACTED]
Subject: Complaint/Phone Conversation on 2/24/2015

[REDACTED]

It was good talking to you. Based on our phone conversation in the afternoon of 2/24/2015, you spoke with Mr. Armando Garcia to determine whether the water that was collected by TCEQ from the pressure tank in October of 2014 was from W-24. You stated that Mr. Armando was not certain. You sent me an e-mail on 2/24/2015 at 3:45 PM, providing further explanation. We discussed the possibility of installing a pump in W-24, and sampling directly from the W-24. We also discussed who should be covering the cost. You asked whether URI or TCEQ will be willing to cover the cost. I stated that I cannot speak on behalf of URI but, I will discuss this with my management and will let you know.

I will discuss this matter with my management and will let you know this week. Please do not hesitate to contact me with any comments/questions you may have.

Regards,

Muhammadali Abbaszadeh, Health Physicist, Work Leader
Radioactive Materials Compliance Team
Critical Infrastructure Division
Homeland Security Section
Office of Compliance and Enforcement
Texas Commission on Environmental Quality
muhammadali.abbaszadeh@tceq.texas.gov
Office: (512) 239-6078
Mobile: 512-438-9812

Muhammadali Abbaszadeh

From: Dale Kohler
Sent: Monday, March 16, 2015 11:09 AM
To: [REDACTED]
Subject: RE: Complaint Garcia Hill

[REDACTED]

Thank you for reaching out to me. I agree. Written communication is always best as there is much less chance of miscommunication that way. However, please don't take a misunderstanding as an insult. We do our best to answer every question we get as thoroughly and correctly as we can and of course there are occasionally instances where the question we are answering is not the question that was asked.

Specifically, in regard to WW-24, as Muhammad stated, obviously the TCEQ has no objection paying for the analyses of samples that we collect as part of our investigation and if it were possible to collect a sample directly from the well, the TCEQ would do so. If the current situation or needs change, we will evaluate the situation as appropriate.

Also please note that Mr. Derek Eades no longer works for TCEQ. I am Muhammad's direct Supervisor and Michelle Havelka is the Section Manager. Thank you.

Dale Kohler
Texas Commission on Environmental Quality
Critical Infrastructure Liaison
(512) 239-6636

From: [REDACTED]
Sent: Sunday, March 15, 2015 9:06 PM
To: Dale Kohler; Derek Eades
Subject: Complaint Garcia Hill

Mr. Kohler, Mr. Eades,

With reference to Muhammad's e-mail (Dale copied), the pump in Garcia Hill W-24 water well is not currently operational and the sample of that well taken by Muhammad from the water pressure tank represents water from W-24 with the variable being entry of water from the cement water tank into the metal pressure tank via a faulty valve. I mentioned to Muhammad that correct water sample data of WW-24 is critical in order to arrive at any plausible conclusion on my water contamination complaint and that the only way to obtain a valid water sample was to get a water well company, URI, or TCEQ to obtain the sample possible by inserting a temporary pump into w-24 until the water sample is obtained. I did not, at any point, mention that TCEQ should provide Garcia Hill a new water pump and I am pretty much insulted by Muhammad's e-mail.

I am requesting that all future communication with me by TCEQ be by e-mail or in written form.

Thank you,

Muhammadali Abbaszadeh

From: [REDACTED]
Sent: Tuesday, June 02, 2015 4:09 PM
To: Muhammadali Abbaszadeh
Subject: Re: Complaint/Groundwater Sampling/UPDATE

Could you please e-mail me the phone number for Dale. Thanks
[REDACTED]

Sent from my iPhone

On Jun 2, 2015, at 3:53 PM, Muhammadali Abbaszadeh <Muhammadali.Abbaszadeh@tceq.texas.gov> wrote:

[REDACTED]

In response to your question regarding the TCEQ to collect a water sample directly from well W-24, the TCEQ is able to collect samples from a properly functioning well. The TCEQ does not have the authority to contact a third party in order to supervise the repair or get part of a private water well such as a pump working for the purpose of sampling, if the well was not originally installed by the TCEQ or its contractors. This matter has been discussed with my management. In addition, appropriate TCEQ procedures and policies were also reviewed. Please contact my immediate supervisor, Dale Kohler, if you would like to discuss this further.

Regards,

Muhammadali

From: [REDACTED]
Sent: Tuesday, May 05, 2015 3:05 PM
To: Muhammadali Abbaszadeh
Subject: Re: Complaint/Groundwater Sampling/UPDATE

Muhammad,
The phone number for Neely's Water well service out of Riviera, Texas is 361-296-3226 and number for Jim Bob Neely (owner/home number) is 361-296-3924. Let me know if I can help in any other way.
thanks
[REDACTED]

On Tuesday, May 5, 2015 12:41 PM, Muhammadali Abbaszadeh
<Muhammadali.Abbaszadeh@tceq.texas.gov> wrote:

[REDACTED]

Please send me Mr. Jim Bob Neely's from Neely's Water Well service contact information, in case we need to contact him to discuss this matter.

Regards,

Muhammadali Abbaszadeh

From: [REDACTED]
Sent: Monday, May 04, 2015 1:12 PM
To: Muhammadali Abbaszadeh
Subject: Re: Complaint/Groundwater Sampling/UPDATE

Muhammadali,

Thank you for your e-mail. Let me know how I can help. [REDACTED] on a road trip from this Friday May 8 until May 30 but I am available by e-mail or cell phone [REDACTED]

thanks
[REDACTED]

On Monday, May 4, 2015 11:49 AM, Muhammadali Abbaszadeh
<Muhammadali.Abbaszadeh@tceq.texas.gov> wrote:

[REDACTED]

This is to inform you that we are still exploring the best option to approach and accomplish this task. We should have a response by the end of this week or sometimes next week.

Regards,

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Monday, April 20, 2015 1:02 PM
To: [REDACTED]
Subject: RE: Complaint/Groundwater Sampling/UPDATE

[REDACTED]

Thank you very much for your prompt response. I will discuss this with my management and will inform you soon.

Regards,

Muhammadali Abbaszadeh

From: [REDACTED]
Sent: Monday, April 20, 2015 12:09 PM

To: Muhammadali Abbaszadeh
Subject: Re: Complaint/Groundwater Sampling/UPDATE

Muhammad,

Hope you had a good weekend. It seems that the best way to insure the integrity of the results would be to sample the well directly. If you have a visit planned to Kingsville, why not set up a meeting with Jim Bob Neely and you can discuss the best way to get that sample. It might be a simple matter of getting the pump to work long enough to get the sample. The results of that sample are a key, in my opinion, to your investigation and your ability to defend your conclusion. Let me know if you want me to help you set up either a live or phone meeting with Jim Bob Neely from Neely's Water Well service. Thanks and have a good day,

[REDACTED]
04-20-2015

On Monday, April 20, 2015 8:46 AM, Muhammadali Abbaszadeh
<Muhammadali.Abbaszadeh@tceq.texas.gov> wrote:

Good morning [REDACTED]

Just to clarify, do you mean retesting the well by re-sampling from the pressure tank or directly from the wellhead (W-24)? Please let me know.

Regards,

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Monday, April 06, 2015 9:09 AM
To: [REDACTED]
Subject: RE: Complaint/Groundwater Sampling/UPDATE

Good morning [REDACTED]

I will discuss retesting the well with my management and will let you know.

Regards,

Muhammadali Abbaszadeh

From: [REDACTED]
Sent: Sunday, April 05, 2015 12:25 PM
To: Muhammadali Abbaszadeh
Subject: Re: Complaint/Groundwater Sampling/UPDATE

Muhammad,

Are you going to retest the Garcia Hill Well? The fact that the well is not operational now does not mean that the well (and the water) will not be used in the near future.

Let me know.

thanks
[REDACTED]

On Sunday, April 5, 2015 11:50 AM, Muhammadali Abbaszadeh
<Muhammadali.Abbaszadeh@tceq.texas.gov> wrote:

[REDACTED]

This is to inform you that the we are in the final stages of finalizing this complaint investigation. We will inform you upon completion of our investigation. Please do not hesitate to contact me with any comments/questions you may have

Regards,

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Monday, January 26, 2015 2:50 PM
To: [REDACTED]
Subject: FW: Complaint/Groundwater Sampling

[REDACTED]

This is to inform you that the we are still gathering information regarding your complaint. We will inform you upon completion of our investigation.

Regards,

Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Friday, January 09, 2015 4:50 PM
To: [REDACTED]
Subject: FW: Complaint/Groundwater Sampling

[REDACTED]

Attached are the radiological and metal results for water samples collected by TCEQ staff at the URI, Kingsville Dome site on 10/29/2014 and 11/13/2014. This completes the results for all samples collected on 10/14/2014, 10/29/2014, and 11/13/2014. Please do not hesitate to contact me with any comments/questions you may have

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Muhammadali Abbaszadeh

From: Muhammadali Abbaszadeh
Sent: Monday, January 05, 2015 4:42 PM
To: [REDACTED]
Subject: RE: Complaint/Groundwater Sampling

[REDACTED]

Attached are some of the results I have received from the state laboratory. I will send you the remaining results once I receive them from the laboratory. The sampling events conducted by TCEQ at the Garcia Hill and/or URI Kingsville Dome site occurred on 10/14/2014, 10/29/2014, and 11/13/2014. Please note Please do not hesitate to contact me with any comments/questions you may have.

Muhammadali Abbaszadeh, Health Physicist
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muhammadali.abbaszadeh@tceq.texas.gov
Office: (512) 239-6078
Mobile: 512-438-9812

From: Muhammadali Abbaszadeh
Sent: Thursday, December 25, 2014 11:49 AM
To: [REDACTED]
Cc: Dale Kohler
Subject: Re: Complaint/Groundwater Sampling

[REDACTED]
Happy holidays to you. I am out of state. I will be back on 1/5/2015. I did not have all the results as of 12/19/2014. When I get back I will contact you and will give you an update on the status of the results.

Regards,
M. Abbaszadeh

Sent from my iPhone

On Dec 22, 2014, at 6:45 PM, [REDACTED]

Muhammad,
Happy holidays. Could I have a copy of the results. Let me know.
Thanks
[REDACTED]

Sent from my iPhone

On Nov 24, 2014, at 10:49 AM, Muhammadali Abbaszadeh
<Muhammadali.Abbaszadeh@tceq.texas.gov> wrote:

[REDACTED]
The purpose of this e-mail is to inform you that the TCEQ has completed the groundwater sampling at URI, Kingsville Dome facility. The samples have been submitted to the Department of State Health Services for analyses.

Muhammadali Abbaszadeh, Health Physicist
UIC & Radioactive Materials Compliance
Coordinator/Investigator
Critical Infrastructure Division
Homeland Security Section
Office of Compliance and Enforcement
Texas Commission on Environmental Quality
muhammadali.abbaszadeh@tceq.texas.gov
Office: (512) 239-6078
Mobile: 512-438-9812

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
MAY 15, 1997

RECEIVED MAY 15 1997

URI, INC.
12750 MERIT DRIVE, SUITE 1020, LB12
DALLAS, TEXAS 75251

REPORT OF ANALYSIS

IDENTIFICATION: KVD GARCIA'S GROUND WATER
4-4-97

METHOD NUMBER		ANALYSIS DATE
SM 4500-H	PH ----- 8.18	04-16-97
SM 2510	SPECIFIC CONDUCTANCE 1620 UMHOS/CM @ 25 DEG.C.	04-16-97
ASTM D2907-83	URANIUM (NATURAL), MG/L ----- 0.186	04-23-97
SW-846 9310	GROSS ALPHA ACTIVITY, PCI/L ----- 104	05-06-97
	COUNTING ERROR, PCI/L ----- +/- 10	
SW-846 9310	GROSS BETA ACTIVITY, PCI/L ----- 29	05-06-97
	COUNTING ERROR, PCI/L ----- +/- 5	
SM 7500-RA C.	RADIUM 226, PCI/L ----- 0.4	04-29-97
	COUNTING ERROR, PCI/L ----- +/- 0.1	

ANALYSTS: STRAUSS (PH, SPEC. CONDUCTANCE, RADIUM 226);
GEARY (URANIUM); CHAPA (GROSS ALPHA/BETA)

LAB. NO. M35-4228

RESPECTFULLY SUBMITTED,

CARL F. CROWNOVER, PRES.

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.

REPORT DATE: AUGUST 11, 1997

IDENTIFICATION: KVD WW 24-25

5-23-97

LABORATORY: JORDAN LABORATORIES, INC.

MAJOR AND SECONDARY CONSTITUENTS

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	24	1.20	62.40	7.43
MAGNESIUM(MG)	7.5	0.62	28.89	3.84
SODIUM(NA)	324	14.09	689.00	87.30
POTASSIUM(K)	8.8	0.23	16.56	1.43
TOTAL CATION		16.14		
CARBONATE(CO3)	0	0.00	0.00	0.00
BICARBONATE(HCO3)	304	4.98	217.13	32.05
SULFATE(SO4)	194	4.04	298.56	26.00
CHLORIDE(CL)	231	6.52	494.87	41.96
NITRATE(NO3-N)				
FLUORIDE(F)				
SILICA(SIO2)	20			
		TOTAL	1807.41	

TOTAL ION 1113
TOTAL ANION 15.54

ACCURACY CHECK

RANGE

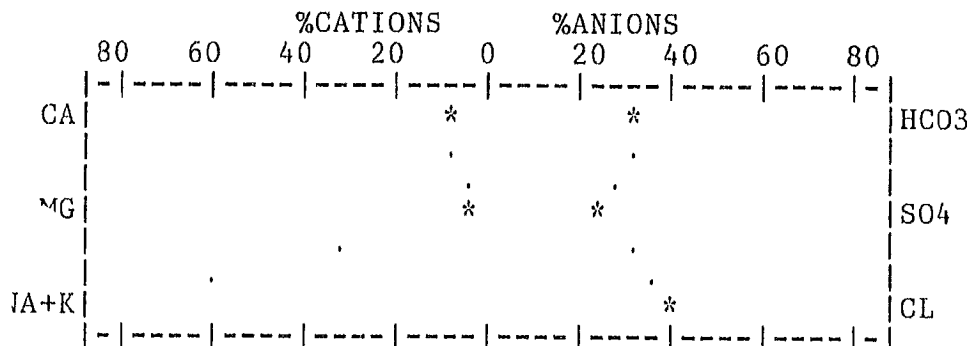
TDS(180 C)	940	ION	1.039	(.96 TO 1.04)
TOT ION-0.5 HCO3=	961	TDS	0.978	(.90 TO 1.10)
EC(25 C)	1570 UMHOS	EC	0.979	(.95 TO 1.05)
EC(DIL)=106.0 X 16.7 =	1770 UMHOS			
ALK. AS CaCO3	249			
PH	8.18			

RADIATION-PICOCURIES/LITER

GROSS ALPHA +/-
GROSS BETA +/-
RADIUM 226 +/-

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)		MANGANESE(MN)		VANADIUM(V)	
BARIUM(BA)		MERCURY(HG)		ZINC(ZN)	
CADMIUM(CD)		MOLY.(MO)		BORON(B)	
CHROM.(CR)		NICKEL(NI)		AMMONIA-N	
COPPER(CU)		SELENIUM(SE)			
IRON(Fe)		SILVER(AG)			
LEAD(PB)		URANIUM(U)			



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB. NO: M35-6795

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
AUGUST 11, 1997

URI, INC.
12750 MERIT DRIVE, SUITE 1020, LB12
DALLAS, TEXAS 75251

REPORT OF ANALYSIS

IDENTIFICATION: KVD
WW 24-25
5-23-97

METHOD NUMBER			ANALYST	ANALYSIS DATE
ASTM D2907-83	URANIUM (NATURAL), MG/L -----	0.220	KUME	06-10-97
SM 7110 B	GROSS ALPHA ACTIVITY, PCI/L -- 124 COUNTING ERROR, PCI/L -- +/- 11		CHAPA	06-12-97
SM 7110 B	GROSS BETA ACTIVITY, PCI/L --- 50 COUNTING ERROR, PCI/L -- +/- 5		CHAPA	06-12-97
SM 7500-RA C.	RADIUM 226, PCI/L ----- COUNTING ERROR, PCI/L -- +/-	0.9 0.1	CHAPA	06-16-97

LAB. NO. M35-6795

RESPECTFULLY SUBMITTED,

CARL F. CROWNOVER, PRES.

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.

REPORT DATE: OCTOBER 21, 1997

IDENTIFICATION: KVD W24-25

GARCIA 8-29-97

LABORATORY: JORDAN LABORATORIES, INC.

MAJOR AND SECONDARY CONSTITUENTS

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	19	0.95	49.40	6.01
MAGNESIUM(MG)	6.5	0.53	24.70	3.35
SODIUM(NA)	325	14.14	691.45	89.38
POTASSIUM(K)	8.0	0.20	14.40	1.26

TOTAL CATION 15.82

CARBONATE(CO3)	0	0.00	0.00	0.00
BICARBONATE(HCO3)	304	4.98	217.13	32.25
SULFATE(SO4)	189	3.94	291.17	25.52
CHLORIDE(CL)	231	6.52	494.87	42.23
NITRATE(NO3-N)				
FLUORIDE(F)				
SILICA(SIO2)	19			
		TOTAL	1783.11	

TOTAL ION 1102
TOTAL ANION 15.44

ACCURACY CHECK

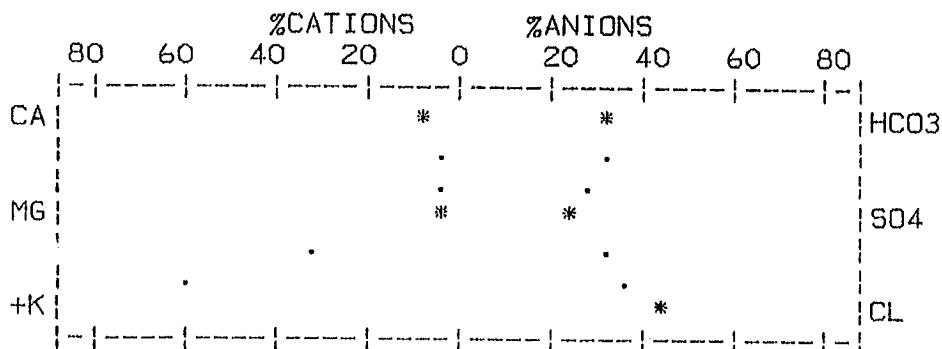
TDS(180 C)	960	ION	1.025	(.96 TO 1.04)
TOT ION-0.5 HCO3=	950	TDS	1.011	(.90 TO 1.10)
EC(25 C)	1620 UMHOS	EC	0.998	(.95 TO 1.05)
EC(DIL)=106.6 X 16.7 =	1780 UMHOS			
ALK. AS CaCO3	249			
PH	8.18			

RADIATION-PICOCURIES/LITER

GROSS ALPHA	+/-
GROSS BETA	+/-
RADIUM 226	+/-

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)		MANGANESE(MN)		VANADIUM(V)	
BARIUM(BA)		MERCURY(HG)		ZINC(ZN)	
CADMIUM(CD)		MOLY.(MO)		BORON(B)	
CHROM.(CR)		NICKEL(NI)		AMMONIA-N	
COPPER(CU)		SELENIUM(SE)			
IRON(Fe)		SILVER(AG)			
LEAD(PB)		URANIUM(U)			



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB.NO:M35-10354

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
October 21, 1997

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

Identification: KVD W24-25
Garcia
8-29-97

Method Number			Analyst	Analysis Date
ASTM D2907-83	Uranium (Natural), mg/L -----	0.152	Owen	09-18-97
SW-846 9310	Gross Alpha Activity, pci/L -- 67 Counting Error, pci/L -- +/- 8		Chapa	09-12-97
SW-846 9310	Gross Beta Activity, pci/L --- 45 Counting Error, pci/L -- +/- 5		Chapa	09-12-97
SM 7500-Ra C.	Radium 226, pci/L ----- Counting Error, pci/L -- +/- 0.1	0.5 0.1	Strauss	09-11-97

Lab. No. M35-10354

Respectfully Submitted,

Carl F. Crownover, Pres.

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.

IDENTIFICATION: KVD W24-25

GARCIA 8-29-97

LABORATORY: JORDAN LABORATORIES, INC.

REPORT DATE: OCTOBER 21, 1997

RECEIVED OCT 27 1997

MAJOR AND SECONDARY CONSTITUENTS

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	19	0.95	49.40	6.01
MAGNESIUM(MG)	6.5	0.53	24.70	3.35
SODIUM(NA)	325	14.14	691.45	89.38
POTASSIUM(K)	8.0	0.20	14.40	1.26

TOTAL CATION 15.82

CARBONATE(CO3)	0	0.00	0.00	0.00
BICARBONATE(HCO3)	304	4.98	217.13	32.25
SULFATE(SO4)	189	3.94	291.17	25.52
CHLORIDE(CL)	231	6.52	494.87	42.23
NITRATE(NO3-N)				
FLUORIDE(F)				
SILICA(SIO2)	19			
		TOTAL	1783.11	

TOTAL ION 1102
TOTAL ANION 15.44

ACCURACY CHECK

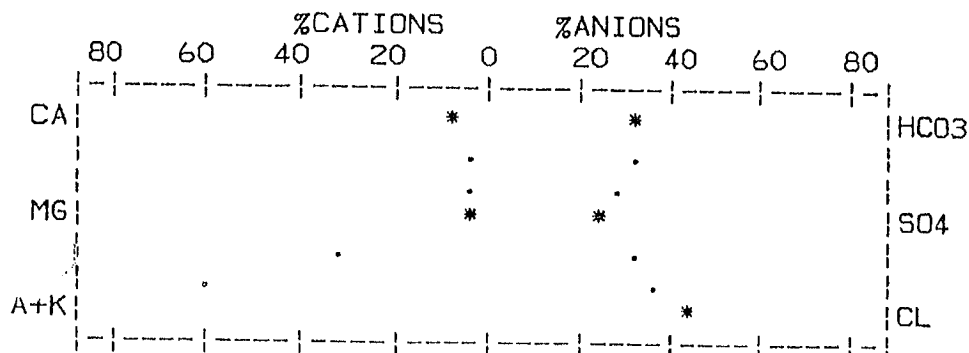
		ION	RANGE
DS(180 C)	960	ION	1.025 (.96 TO 1.04)
TOT ION-0.5 HCO3=	950	TDS	1.011 (.90 TO 1.10)
EC(25 C)	1620 UMHOS	EC	0.998 (.95 TO 1.05)
EC(DIL)=106.6 X 16.7 =	1780 UMHOS		
ALK. AS CACO3	249		
PH	8.18		

RADIATION-PICOCURIES/LITER

GROSS ALPHA	+/-
GROSS BETA	+/-
RADIUM 226	+/-

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)		MANGANESE(MN)		VANADIUM(V)	
BARIUM(BA)		MERCURY(HG)		ZINC(ZN)	
CADMIUM(CD)		MOLY.(MO)		BORON(B)	
CHROM.(CR)		NICKEL(NI)		AMMONIA-N	
COPPER(CU)		SELENIUM(SE)			
IRON(Fe)		SILVER(AG)			
LEAD(PB)		URANIUM(U)			



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB. NO: M35-10354

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
October 21, 1997

RECEIVED

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

Identification: KVD W24-25
Garcia
8-29-97

Method Number			Analyst	Analysis Date
ASTM D2907-83	Uranium (Natural), mg/L -----	0.152	Owen	09-18-97
SW-846 9310	Gross Alpha Activity, pci/L -- 67 Counting Error, pci/L -- +/- 8		Chapa	09-12-97
SW-846 9310	Gross Beta Activity, pci/L --- 45 Counting Error, pci/L -- +/- 5		Chapa	09-12-97
SM 7500-Ra C.	Radium 226, pci/L ----- Counting Error, pci/L -- +/- 0.1	0.5 0.1	Strauss	09-11-97

Lab. No. M35-10354

Respectfully Submitted,

Carl F. Crownover, Pres.

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.
 IDENTIFICATION: KVD W24-25 GARCIA
 GROUNDWATER 12-9-97
 LABORATORY: JORDAN LABORATORIES, INC.

REPORT DATE: JANUARY 20, 1998

MAJOR AND SECONDARY CONSTITUENTS

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	19	0.95	49.40	6.01
MAGNESIUM(MG)	6.5	0.53	24.70	3.35
SODIUM(NA)	325	14.14	691.45	89.38
POTASSIUM(K)	7.9	0.20	14.40	1.26

TOTAL CATION 15.82

CARBONATE(CO3)	0	0.00	0.00	0.00
BICARBONATE(HCO3)	309	5.06	220.62	32.35
SULFATE(SO4)	195	4.06	300.03	25.96
CHLORIDE(CL)	231	6.52	494.87	41.69
NITRATE(NO3-N)				
FLUORIDE(F)				
SILICA(SIO2)	19			
		TOTAL	1795.46	

TOTAL ION 1112
 TOTAL ANION 15.64

ACCURACY CHECK

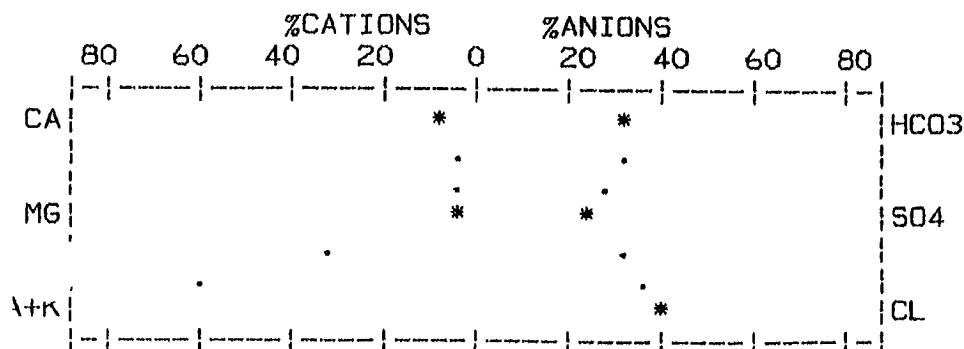
DS(180 C)	940	ION	1.012	(.96 TO 1.04)
TOT ION-0.5 HCO3=	958	TDS	0.981	(.90 TO 1.10)
EC(25 C)	1650 UMHOS	EC	1.008	(.95 TO 1.05)
EC(DIL)= 90.5 X 20.0 =	1810 UMHOS			
ALK. AS CaCO3	253			
PH	8.03			

RADIATION-PICOCURIES/LITER

GROSS ALPHA	121	+/-	11
GROSS BETA	57	+/-	6
RADIUM 226	0.8	+/-	0.1

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)		MANGANESE(MN)		VANADIUM(V)	
BARIUM(BA)		MERCURY(HG)		ZINC(ZN)	
CADMIUM(CD)		MOLY.(MO)		BORON(B)	
CHROM.(CR)		NICKEL(NI)		AMMONIA-N	
COPPER(CU)		SELENIUM(SE)			
IRON(Fe)		SILVER(AG)			
LEAD(PB)		URANIUM(U)	0.190		



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB.NO:M35-14118

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
September 15, 1998

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

Identification: KVD
W-24-25 Garcia
1223 8-27-98

Method Number		Analysis Date
SM 4500-H	pH ----- 8.21	08-31-98
SM 2510	Specific Conductance 1660 umhos/cm @ 25 Deg.C.	08-31-98
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.158	09-03-98
SW-846 9310	Gross Alpha Activity, pci/L ----- 94	09-09-98
	Counting Error, pci/L ----- +/- 10	
SW-846 9310	Gross Beta Activity, pci/L ----- 36	09-09-98
	Counting Error, pci/L ----- +/- 5	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.7	09-14-98
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Strauss (pH, Spec. Conductance, Gross Alpha/Beta,
Radium 226); Owen (Uranium)

Lab. No. M36-6659

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 17, 1998

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

Identification: KVD
Water W-25 Garcia Well
5:22 PM 6-18-98

Method Number		Analysis Date
SM 4500-H	pH ----- 8.20	06-23-98
SM 2510	Specific Conductance 1630 umhos/cm @ 25 Deg.C.	06-23-98
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.167	06-26-98
SW-846 9310	Gross Alpha Activity, pci/L ----- 102	07-03-98
	Counting Error, pci/L ----- +/- 10	
SW-846 9310	Gross Beta Activity, pci/L ----- 30	07-03-98
	Counting Error, pci/L ----- +/- 5	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.9	07-07-98
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Strauss (pH, Spec. Conductance, Gross Alpha/Beta,
Radium 226); Owen (Uranium)

Lab. No. M36-4716

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 17, 1998

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

Identification: KVD
Water W-24 Garcia Well
5:22 PM 6-18-98

Method Number			Analysis Date
SM 4500-H	pH -----	8.14	06-23-98
SM 2510	Specific Conductance	1640 umhos/cm @ 25 Deg.C.	06-23-98
ASTM D2907-83	Uranium (Natural), mg/L -----	0.152	06-26-98
SW-846 9310	Gross Alpha Activity, pci/L -----	103	07-03-98
	Counting Error, pci/L ----- +/-	10	
SW-846 9310	Gross Beta Activity, pci/L -----	37	07-03-98
	Counting Error, pci/L ----- +/-	5	
SM 7500-Ra C.	Radium 226, pci/L -----	0.8	07-07-98
	Counting Error, pci/L ----- +/-	0.1	

Analysts: Strauss (pH, Spec. Conductance, Gross Alpha/Beta,
Radium 226); Owen (Uranium)

Lab. No. M36-4715

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
December 18, 1998

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

Identification: W-24/25 Garcia Wells
1630 11-25-98

Method Number		Analysis Date
SM 4500-H	pH ----- 8.04	12-08-98
SM 2510	Specific Conductance 1630 umhos/cm @ 25 Deg.C.	12-08-98
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.209	12-15-98
SW-846 9310	Gross Alpha Activity, pci/L ----- 111	12-16-98
	Counting Error, pci/L ----- +/- 10	
SW-846 9310	Gross Beta Activity, pci/L ----- 48	12-16-98
	Counting Error, pci/L ----- +/- 5	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.7	12-17-98
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon (pH, Spec. Conductance) Chapa (Gross Alpha/Beta)
Strauss (Radium 226) Owen (Uranium)

Lab. No. M36-9030

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 20, 1999

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

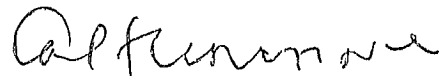
Identification: KVD
H2O W-24-25 Garcia Well
6-21-99 1535

Method Number		Analysis Date
SM 4500-H	pH ----- 8.09	06-25-99
SM 2510	Specific Conductance 1630 umhos/cm @ 25 Deg.C.	06-25-99
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.181	06-25-99
SW-846 9310	Gross Alpha Activity, pci/L ----- 96	07-15-99
	Counting Error, pci/L ----- +/- 10	
SW-846 9310	Gross Beta Activity, pci/L ----- 49	07-15-99
	Counting Error, pci/L ----- +/- 5	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.7	07-08-99
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Chapa (pH, Spec. Conductance, Gross Alpha/Beta, Radium 226);
Owen (Uranium)

Lab. No. M37-3747

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 14, 1999

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

APR 16 1999

Report of Analysis

Identification: KVD
W-24-25 Garcia Wells
1251 3-26-99

Method Number		Analysis Date
SM 4500-H	pH ----- 8.15	03-29-99
SM 2510	Specific Conductance 1620 umhos/cm @ 25 Deg.C.	03-29-99
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.200	04-02-99
SW-846 9310	Gross Alpha Activity, pci/L ----- 99	04-09-99
	Counting Error, pci/L ----- +/- 10	
SW-846 9310	Gross Beta Activity, pci/L ----- 42	04-09-99
	Counting Error, pci/L ----- +/- 5	
SM 7500-Ra C.	Radium 226, pci/L ----- 1.2	04-07-99
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Strauss (pH, Spec. Conductance); Owen (Uranium);
Chapa (Gross Alpha/Beta, Radium 226)

Lab. No. M37-1911

Respectfully Submitted,

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 14, 1999

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

1/9

Identification: KVD
W-24-25 Garcia Wells
1251 3-26-99

Method Number		Analysis Date
SM 4500-H	pH ----- 8.15	03-29-99
SM 2510	Specific Conductance 1620 umhos/cm @ 25 Deg.C.	03-29-99
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.200	04-02-99
SW-846 9310	Gross Alpha Activity, pci/L ----- 99	04-09-99
	Counting Error, pci/L ----- +/- 10	
SW-846 9310	Gross Beta Activity, pci/L ----- 42	04-09-99
	Counting Error, pci/L ----- +/- 5	
SM 7500-Ra C.	Radium 226, pci/L ----- 1.2	04-07-99
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Strauss (pH, Spec. Conductance); Owen (Uranium);
Chapa (Gross Alpha/Beta, Radium 226)

Lab. No. M37-1911

RECEIVED APR 19 1999

Respectfully Submitted,

Carl F. Crownover

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 20, 1999

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

29

Report of Analysis

Identification: KVD
H2O W-24-25 Garcia Well
6-21-99 1535

Method Number		Analysis Date
SM 4500-H	pH ----- 8.09	06-25-99
SM 2510	Specific Conductance 1630 umhos/cm @ 25 Deg.C.	06-25-99
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.181	06-25-99
SW-846 9310	Gross Alpha Activity, pci/L ----- 96	07-15-99
	Counting Error, pci/L ----- +/- 10	
SW-846 9310	Gross Beta Activity, pci/L ----- 49	07-15-99
	Counting Error, pci/L ----- +/- 5	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.7	07-08-99
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Chapa (pH, Spec. Conductance, Gross Alpha/Beta, Radium 226);
Owen (Uranium)

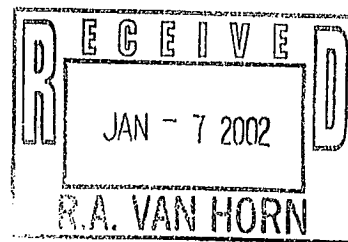
Lab. No. M37-3747

Respectfully Submitted,

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
January 04, 2002

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067



Report of Analysis

Identification: KVD
Garcia Well
4th Qtr.
12-17-01

Method Number		Analysis Date
EPA 600 150.1	pH ----- 8.15	12-18-01
EPA 600 120.1	Specific Conductance 1610 umhos/cm @ 25 Deg.C.	12-18-01
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.240	12-19-01
SM 7110 B.	Gross Alpha Activity, pci/L ----- 113	12-20-01
	Counting Error, pci/L ----- +/- 9	
SM 7110 B.	Gross Beta Activity, pci/L ----- 26	12-20-01
	Counting Error, pci/L ----- +/- 5	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.9	01-02-02
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon (pH, Spec. Conductance, Radium 226)
Moore (Uranium)
Nixon/Allen (Gross Alpha/Beta)

Lab. No. M39-5677

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "Carl F. Crownover".

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
October 03, 2001

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

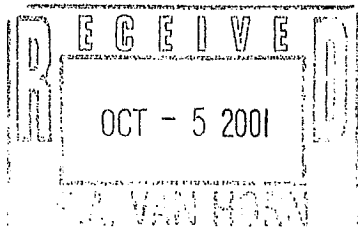
Report of Analysis

Identification: KVD
Garcia Well
3rd Qtr
9-13-01

Method Number		Analysis Date
EPA 600 150.1	pH ----- 8.03	09-14-01
EPA 600 120.1	Specific Conductance 1430 umhos/cm @ 25 Deg.C.	09-14-01
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.160	09-20-01
EPA 600 900.0	Gross Alpha Activity, pci/L ----- 81	09-18-01
	Counting Error, pci/L ----- +/- 8	
EPA 600 900.0	Gross Beta Activity, pci/L ----- 32	09-18-01
	Counting Error, pci/L ----- +/- 4	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.8	09-18-01
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon (pH, Spec. Conductance, Radium 226)
Moore (Uranium)
Nixon/Allen (Gross Alpha/Beta)

Lab. No. M39-4401



Respectfully Submitted,

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 05, 2001

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD Groundwater
Garcia Well W24-25
6-11-01

Method Number		Analysis Date
EPA 600 150.1	pH ----- 8.03	06-18-01
EPA 600 120.1	Specific Conductance 1510 umhos/cm @ 25 Deg.C.	06-18-01
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.179	06-26-01
EPA 600 900.0	Gross Alpha Activity, pci/L ----- 72	06-20-01
	Counting Error, pci/L ----- +/- 7	
EPA 600 900.0	Gross Beta Activity, pci/L ----- 38	06-20-01
	Counting Error, pci/L ----- +/- 4	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.8	07-02-01
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon (pH, Spec. Conductance)
Geary (Uranium)
Nixon/Allen (Gross Alpha/Beta)
Nixon (Radium 226)

Lab. No. M39-2794

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
March 08, 2001

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

Identification: KVD
Garcia Well #24 & 25
2-19-01

Method Number		Analysis Date
SM 4500-H	pH ----- 8.15	02-21-01
SM 2510	Specific Conductance 1570 umhos/cm @ 25 Deg.C.	02-21-01
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.184	02-27-01
SW-846 9310	Gross Alpha Activity, pci/L ----- 78	02-22-01
	Counting Error, pci/L ----- +/- 7	
SW-846 9310	Gross Beta Activity, pci/L ----- 27	02-22-01
	Counting Error, pci/L ----- +/- 4	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.7	02-23-01
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon (pH, Spec. Conductance)
Moore (Uranium)
Nixon/Allen (Gross Alpha/Beta)
Nixon/Harper (Radium 226)

Lab. No. M39-757

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 15, 2002

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

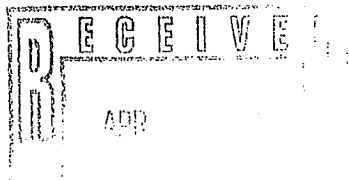
Report of Analysis

Identification: KVD
Groundwater 1st Qtr.
WW-24 & 25 Garcia Well
3-21-02

Method Number		Analysis Date
EPA 600 150.1	pH ----- 8.16	03-22-02
EPA 600 120.1	Specific Conductance 1680 umhos/cm @ 25 Deg.C.	03-22-02
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.164	04-02-02
EPA 600 900.0	Gross Alpha Activity, pci/L ----- 89	04-05-02
	Counting Error, pci/L ----- +/- 9	
EPA 600 900.0	Gross Beta Activity, pci/L ----- 33	04-05-02
	Counting Error, pci/L ----- +/- 4	
SM 7500-Ra C.	Radium 226, pci/L ----- 0.8	04-15-02
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Moore (pH, Spec. Conductance, Uranium)
Nixon/Allen (Gross Alpha/Beta)
Nixon/Moore (Radium 226)

Lab. No. M40-977



Respectfully Submitted,

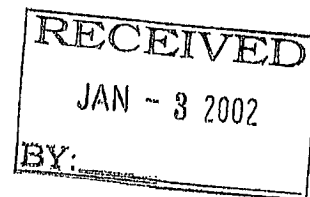
Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
December 31, 2002

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
Garcia Well
Groundwater
12-13-02



Method Number			Analysis Date
150.1	pH -----	8.13	12-16-02
120.1	Specific Conductance	1590 umhos/cm @ 25 Deg.C.	12-16-02
D2907-83	Uranium, mg/L -----	0.188	12-27-02
900.0	Gross Alpha Activity, pci/L -----	126	12-20-02
	Counting Error, pci/L -----	+/- 10	
900.0.	Gross Beta Activity, pci/L -----	28	12-20-02
	Counting Error, pci/L -----	+/- 4	
7500-Ra C.	Radium 226, pci/L -----	0.7	12-30-02
	Counting Error, pci/L -----	+/- 0.1	

Analysts: Moore (pH, Uranium)
Nixon (Spec. Conductance, Radium 226)
Nixon/Allen (Gross Alpha/Beta)

Lab. No. M40-4556

Respectfully Submitted,

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 19, 2002

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

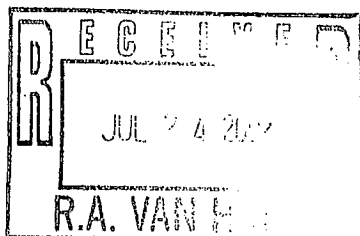
Report of Analysis

Identification: KVD - Groundwater
Garcia Well
06-26-02


Method Number		Analysis Date
150.1	pH ----- 8.17	06-27-02
120.1	Specific Conductance 1720 umhos/cm @ 25 Deg.C.	06-27-02
D2907-83	Uranium (Natural), mg/L ----- 0.141	07-02-02
7110 B.	Gross Alpha Activity, pci/L ----- 74	07-02-02
	Counting Error, pci/L ----- +/- 8	
7110 B.	Gross Beta Activity, pci/L ----- 22	07-02-02
	Counting Error, pci/L ----- +/- 4	
7500-Ra C.	Radium 226, pci/L ----- 0.6	07-15-02
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Allen (pH, Spec. Conductance)
Moore (Uranium)
Nixon/Allen (Gross Alpha/Beta)
Nixon (Radium 226)

Lab. No. M40-2167



Respectfully Submitted,


Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
October 25, 2002

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
Garcia Well
Groundwater
9-30-02

Method Number		Analysis Date
150.1	pH ----- 8.13	10-03-02
120.1	Specific Conductance 1660 umhos/cm @ 25 Deg.C.	10-03-02
D2907-83	Uranium, mg/L ----- 0.172	10-09-02
7110 B.	Gross Alpha Activity, pci/L ----- 82	10-02-02
	Counting Error, pci/L ----- +/- 8	
7110 B.	Gross Beta Activity, pci/L ----- 11	10-02-02
	Counting Error, pci/L ----- +/- 3	
7500-Ra C.	Radium 226, pci/L ----- 0.8	10-24-02
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Moore (pH, Spec. Conductance, Uranium)
Nixon/Allen (Gross Alpha/Beta)
Nixon (Radium 226)

Lab. No. M40-3433

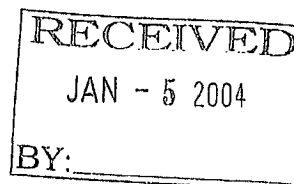
OCT 29 2002

Respectfully Submitted,


Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
December 31, 2003

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067



Report of Analysis


Identification: KVD
GW Garcia Well
12-12-03

Method Number		Analysis Date
150.1	pH ----- 8.05	12-15-03
120.1	Specific Conductance 1630 umhos/cm @ 25 Deg.C.	12-15-03
D2907-83	Uranium, mg/L ----- 0.187	12-30-03
900.0	Gross Alpha Activity, pci/L ----- 118	12-16-03
	Counting Error, pci/L ----- +/- 13	
900.0.	Gross Beta Activity, pci/L ----- 22	12-16-03
	Counting Error, pci/L ----- +/- 4	
7500-Ra C.	Radium 226, pci/L ----- 0.8	12-30-03
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon (pH, Spec. Conductance, Radium 226)
Moore (Uranium)
Nixon/Moore (Gross Alpha/Beta)

Lab. No. M41-4213

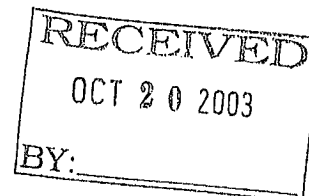
Respectfully Submitted,


Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
October 16, 2003

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis



Identification: KVD
G.W. Garcia Well
9-26-03

Method Number		Analysis Date
150.1	pH ----- 8.20	09-29-03
120.1	Specific Conductance 1710 umhos/cm @ 25 Deg.C.	09-29-03
D2907-83	Uranium, mg/L ----- 0.170	10-15-03
900.0	Gross Alpha Activity, pci/L ----- 135	09-30-03
	Counting Error, pci/L ----- +/- 14	
900.0.	Gross Beta Activity, pci/L ----- 21	09-30-03
	Counting Error, pci/L ----- +/- 4	
7500-Ra C.	Radium 226, pci/L ----- 0.6	10-13-03
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon (pH, Spec. Conductance, Radium 226)
Moore (Uranium)
Nixon/Moore (Gross Alpha/Beta)

Lab. No. M41-3266

Respectfully Submitted,

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 08, 2003

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
Garcia Well
Groundwater
6-23-03

Method Number		Analysis Date
150.1	pH ----- 8.11	06-23-03
120.1	Specific Conductance 1600 umhos/cm @ 25 Deg.C.	06-23-03
D2907-83	Uranium, mg/L ----- 0.172	06-24-03
900.0	Gross Alpha Activity, pci/L ----- 78	06-26-03
	Counting Error, pci/L ----- +/- 8	
900.0.	Gross Beta Activity, pci/L ----- 19	06-26-03
	Counting Error, pci/L ----- +/- 4	
7500-Ra C.	Radium 226, pci/L ----- 0.7	07-07-03
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Moore (pH, Spec. Conductance, Uranium)
Nixon/Moore (Gross Alpha/Beta)
Nixon (Radium 226)

Lab. No. M41-2056

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 26, 2004

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
Garcia Well
Groundwater 1st Qtr.
3-31-04

Method Number			Analysis Date
150.1	pH -----	8.05	04-01-04
120.1	Specific Conductance	1670 umhos/cm @ 25 Deg.C.	04-01-04
D2907-83	Uranium, mg/L -----	0.172	04-12-04
900.0	Gross Alpha Activity, pci/L -----	136	04-02-04
	Counting Error, pci/L ----- +/-	13	
900.0.	Gross Beta Activity, pci/L -----	16	04-02-04
	Counting Error, pci/L ----- +/-	4	
7500-Ra C.	Radium 226, pci/L -----	0.9	04-19-04
	Counting Error, pci/L ----- +/-	0.1	

Analysts: Moore (pH, Spec. Conductance, Uranium)
Nixon/Moore (Gross Alpha/Beta)
Nixon (Radium 226)

Lab. No. M42-1149

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
March 26, 2003

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
GW Garcia Well
3-11-03

Method Number			Analysis Date
150.1	pH -----	8.27	03-12-03
120.1	Specific Conductance	1760 umhos/cm @ 25 Deg. C.	03-12-03
D2907-83	Uranium, mg/L -----	0.180	03-25-03
900.0	Gross Alpha Activity, pci/L -----	134	03-13-03
	Counting Error, pci/L ----- +/-	11	
900.0.	Gross Beta Activity, pci/L -----	29	03-13-03
	Counting Error, pci/L ----- +/-	4	
7500-Ra C.	Radium 226, pci/L -----	0.7	03-24-03
	Counting Error, pci/L ----- +/-	0.1	

Analysts: Nixon (pH, Spec. Conductance, Radium 226)
Moore (Uranium)
Nixon/Moore (Gross Alpha/Beta)

Lab. No. M41-879

Respectfully Submitted,

PJC
Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 02, 2004

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

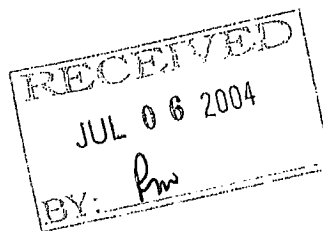
Identification: KVD
Garcia Well
1420 6-29-04

Method
Number

903.1	*Radon 222, pci/L -----	937
	Counting Error, pci/L ----- +/-	15

* Value reflects Radon content at time of sampling.

Analyst: Nixon
Analysis Date: 6-30-04



Lab. No. M42-2497

Respectfully Submitted,


Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 23, 2004

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
Garcia Well
1415 6-29-04

Method Number			Analysis Date
150.1	pH -----	8.05	06-30-04
120.1	Specific Conductance	1660 umhos/cm @ 25 Deg.C.	06-30-04
D2907-83	Uranium, mg/L -----	0.195	07-21-04
900.0	Gross Alpha Activity, pci/L -----	194	07-01-04
	Counting Error, pci/L ----- +/-	18	
900.0.	Gross Beta Activity, pci/L -----	17	07-01-04
	Counting Error, pci/L ----- +/-	4	
7500-Ra C.	Radium 226, pci/L -----	0.8	07-19-04
	Counting Error, pci/L ----- +/-	0.1	

Analysts: Moore (pH, Spec. Conductance, Uranium)
Nixon/Moore (Gross Alpha/Beta)
Nixon (Radium 226)

Lab. No. M42-2497

Respectfully Submitted,


Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 23, 2004

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
Garcia Well
1415 6-29-04

Method Number		Analysis Date
150.1	pH ----- 8.05	
120.1	Specific Conductance 1660 umhos/cm @ 25 Deg.C.	06-30-04
		06-30-04
D2907-83	Uranium, mg/L -----	
900.0	Gross Alpha Activity, pci/L ----- 0.195	07-21-04
	Counting Error, pci/L ----- +/- 194	07-01-04
900.0.	Gross Beta Activity, pci/L -----	
	Counting Error, pci/L ----- +/- 17	07-01-04
7500-Ra C.	Radium 226, pci/L -----	
	Counting Error, pci/L ----- +/- 0.8	07-19-04
		0.1

Analysts: Moore (pH, Spec. Conductance, Uranium)
Nixon/Moore (Gross Alpha/Beta)
Nixon (Radium 226)

Lab. No. M42-2497

Respectfully Submitted,


Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
October 05, 2004

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
G.W. 3rd Qtr.
Garcia Well
1450 9-17-04

Method Number			Analysis Date
150.1	pH -----	8.02	09-20-04
120.1	Specific Conductance	1680 umhos/cm @ 25 Deg.C.	09-20-04
D2907-83	Uranium, mg/L -----	0.170	09-21-04
900.0	Gross Alpha Activity, pci/L -----	155	09-21-04
	Counting Error, pci/L ----- +/-	15	
900.0.	Gross Beta Activity, pci/L -----	20	09-21-04
	Counting Error, pci/L ----- +/-	4	
7500-Ra C.	Radium 226, pci/L -----	0.7	10-04-04
	Counting Error, pci/L ----- +/-	0.1	

Analysts: Nixon & Moore

Calibration: Alpha - Th230 Beta - Cs137

Lab. No. M42-3923

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
January 19, 2005

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
G.W. Garcia Well
12-21-04

Method Number			Analysis Date
150.1	pH -----	8.11	12-27-04
120.1	Specific Conductance	1670 umhos/cm @ 25 Deg.C.	12-27-04
D2907-83	Uranium, mg/L -----	0.171	12-29-04
900.0	*Gross Alpha Activity, pci/L -----	182	12-28-04
	Counting Error, pci/L ----- +/-	16	
900.0.	*Gross Beta Activity, pci/L -----	35	12-28-04
	Counting Error, pci/L ----- +/-	4	
7500-Ra C.	Radium 226, pci/L -----	1.1	01-17-05
	Counting Error, pci/L ----- +/-	0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M42-5163

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 14, 2005

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 1st Qtr. G.W.
Garcia Well
03-28-05

Method Number			Analysis Date
150.1	pH -----	8.04	03-29-05
120.1	Specific Conductance	1900 umhos/cm @ 25 Deg.C.	03-29-05
D2907-83	Uranium, mg/L -----	0.009	04-13-05
900.0	*Gross Alpha Activity, pci/L -----	28	04-01-05
	Counting Error, pci/L -----	+/- 8	
900.0.	*Gross Beta Activity, pci/L -----	8.1	04-01-05
	Counting Error, pci/L -----	+/- 4.1	
7500-Ra C.	Radium 226, pci/L -----	0.3	04-12-05
	Counting Error, pci/L -----	+/- 0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M43-1162

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 15, 2005

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
2nd Quarter
Garcia Well
1055 6-28-05

Method Number			Analysis Date
150.1	pH -----	8.02	06-28-05
120.1	Specific Conductance	1380 umhos/cm @ 25 Deg.C.	06-28-05
D2907-83	Uranium, mg/L -----	0.005	07-14-05
900.0	Gross Alpha Activity, pci/L -----	9.9	06-29-05
	Counting Error, pci/L ----- +/-	4.2	
900.0.	Gross Beta Activity, pci/L -----	11	06-29-05
	Counting Error, pci/L ----- +/-	3	
7500-Ra C.	Radium 226, pci/L -----	0.9	07-11-05
	Counting Error, pci/L ----- +/-	0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

Lab. No. M43-2558

*Both WATER wells shut in. water
coming FROM Ricardo water.*

Respectfully Submitted,

cd

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
September 12, 2005

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 3rd Quarter Groundwater
Garcia Well
8-16-05


Ricardo water water not from wells

Method Number		Analysis Date
150.1	pH ----- 7.66	08-17-05
120.1	Specific Conductance, umhos/cm @ 25 Deg.C. ----- 1530	08-17-05
	mg/l	
340.1	Fluoride ----- 0.62	08-26-05
375.3	Sulfate ----- 216	08-29-05
4500-Cl~ B.	Chloride ----- 232	08-24-05
160.1	Total Dissolved Solids (180 Deg.C)-- 945	08-23-05
D2907	Uranium ----- 0.006	08-30-05
	pCi/l	
900.0	*Gross Alpha Activity ----- 13 Counting Error ----- +/- 5	08-22-05
900.0	*Gross Beta Activity ----- 10 Counting Error ----- +/- 3	08-22-05
7500-Ra C.	Radium 226 ----- 0.2 Counting Error ----- +/- 0.1	09-01-05

Analyst: Merks, Moore, and Nixon
Calibration: Alpha- Th230 Beta - Cs137

* Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Lab. No. M43-3431

Signed: 

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
January 27, 2006

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: Ground Water 4th Quarter
Garcia Well
12-31-05

*well operational not going into drinking supply
used for goats well closest to pump house.*

Method Number		Analysis Date
150.1	pH ----- 7.98	01-04-06
120.1	Specific Conductance 1600 umhos/cm @ 25 Deg.C.	01-04-06
D2907	Uranium, mg/L ----- 0.636	01-24-06
900.0	*Gross Alpha Activity, pci/L ----- 606	01-26-06
	Counting Error, pci/L ----- +/- 29	
900.0.	*Gross Beta Activity, pci/L ----- 120	01-26-06
	Counting Error, pci/L ----- +/- 7	
7500-Ra C.	Radium 226, pci/L ----- 1.3	01-16-06
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M44-012

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 05, 2006

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: 1st Quarter Ground Water
Garcla Well
3-20-06

Method Number			Analysis Date
150.1	pH -----	7.70	03-20-06
120.1	Specific Conductance	1610 umhos/cm @ 25 Deg.C.	03-20-06
D2907	Uranium, mg/L -----	0.746	03-21-06
900.0	*Gross Alpha Activity, pci/L -----	786	03-21-06
	Counting Error, pci/L -----	+/- 33	
900.0.	*Gross Beta Activity, pci/L -----	58	03-21-06
	Counting Error, pci/L -----	+/- 6	
7500-Ra C.	Radium 226, pci/L -----	1.3	04-04-06
	Counting Error, pci/L -----	+/- 0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M44-710

Respectfully Submitted,



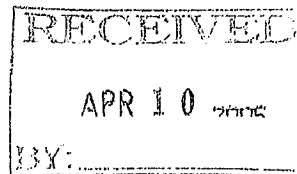
Carl F. Crownover, Pres.

TEL. 361-884-0371

PO BOX 2552 78403

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 05, 2006

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067



Report of Analysis

Identification: 1st Quarter Ground Water
Garcia Well
3-20-06

Method
Number

903.1	*Radon 222, pci/L -----	832
	Counting Error, pci/L -----	+/- 15

* Value reflects Radon content at time of sampling.

Analyst: Nixon
Analysis Date: 03-20-06

Lab. No. M44-710

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "CFC".

Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
June 06, 2006

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 2nd Qtr. Ground Water
Garcia Well
5-15-06

Method Number			Analysis Date
150.1	pH -----	7.82	05-16-06
120.1	Specific Conductance	1610 umhos/cm @ 25 Deg.C.	05-16-06
D2907	Uranium, mg/L -----	0.730	06-05-06
900.0	*Gross Alpha Activity, pci/L -----	677	05-18-06
	Counting Error, pci/L ----- +/-	30	
900.0.	*Gross Beta Activity, pci/L -----	53	05-18-06
	Counting Error, pci/L ----- +/-	5	
7500-Ra C.	Radium 226, pci/L -----	1.2	05-30-06
	Counting Error, pci/L ----- +/-	0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M44-1407

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
October 13, 2006

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 3rd Qtr. Ground Water
Garcia Well
1045 9-25-06

Method Number			Analysis Date
150.1	pH -----	7.84	
120.1	Specific Conductance	1640 umhos/cm @ 25 Deg.C.	09-25-06
D2907	Uranium, mg/L -----	1.57	10-12-06
900.0	*Gross Alpha Activity, pCi/L -----	1300	09-27-06
	Counting Error, pCi/L ----- +/-	43	
900.0.	*Gross Beta Activity, pCi/L -----	129	09-27-06
	Counting Error, pCi/L ----- +/-	8	
7500-Ra C.	Radium 226, pCi/L -----	0.9	10-09-06
	Counting Error, pCi/L ----- +/-	0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M44-2894

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
January 02, 2007

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 4th Qtr. Ground Water
Garcia Well
1124 12-13-06

Method Number		Analysis Date
150.1	pH ----- 7.87	12-14-06
120.1	Specific Conductance 1610 umhos/cm @ 25 Deg.C.	12-14-06
D2907	Uranium, mg/L ----- 0.577	12-27-06
900.0	*Gross Alpha Activity, pCi/L ----- 579	12-18-06
	Counting Error, pCi/L ----- +/- 29	
900.0.	*Gross Beta Activity, pCi/L ----- 48	12-18-06
	Counting Error, pCi/L ----- +/- 5	
7500-Ra C.	Radium 226, pCi/L ----- 1.2	01-02-07
	Counting Error, pCi/L ----- +/- 0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M44-3709

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 30, 2007

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: 1st Quarter Ground Water
Garcia Well
10:25 AM 03-30-07

Method Number		Analysis Date
SM4500-H B.	pH ----- 8.03	04-05-07
120.1	Specific Conductance 1630 umhos/cm @ 25 Deg.C.	04-05-07
D2907	Uranium, mg/L ----- 0.797	04-13-07
7110	*Gross Alpha Activity, pCi/L ----- 709	04-09-07
	Counting Error, pCi/L ----- +/- 31	
7110	*Gross Beta Activity, pCi/L ----- 128	04-09-07
	Counting Error, pCi/L ----- +/- 7	
7500-Ra C.	Radium 226, pCi/L ----- 1.1	04-27-07
	Counting Error, pCi/L ----- +/- 0.1	

Analysts: Nixon & Moore

* Method : 7110 Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M45-931

Respectfully Submitted,


Carl F. Crownover, Pres.

TEL. 361-884-0371

PO BOX 2552 78403

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 13, 2007

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 2nd Qtr. Ground Water
Garcia Well
1246 06-13-07

Method Number		Analysis Date
SM4500-H B.	pH ----- 7.99	06-14-07
120.1	Specific Conductance 1670 umhos/cm @ 25 Deg.C.	06-14-07
D2907	Uranium, mg/L ----- 0.979	07-11-07
7110 B	*Gross Alpha Activity, pCi/L ----- 899	06-15-07
	Counting Error, pCi/L ----- +/- 35	
7110 B	*Gross Beta Activity, pCi/L ----- 49	06-15-07
	Counting Error, pCi/L ----- +/- 6	
7500-Ra C.	Radium 226, pCi/L ----- 1.1	06-27-07
	Counting Error, pCi/L ----- +/- 0.1	

Analysts: Nixon & Moore

* Method: 7110 B Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M45-1494

Respectfully Submitted,

Carl F. Crownover, Pres.

URI, Inc

Quarterly Ground and Surface Water Samples KVD

Quarter: 3

	Location	Date	Time
1	Garcia well (G)	well down	No Sample
2	S1 Road Crossing (S)	9/17/07	9:50
3	S8 Road Crossing (S)	9/17/07	9:50
4	Cumberland well (G)	9/17/07	10:15
5	S3 FM 1118 Crossing (S)	9/17/07	10:30
6	W-14 Lehaman well (G)	9/17/07	10:35
7	Lake McKnight (S)	9/17/07	10:45
8	Radford Well (G)	9/17/07	11:00
9	S4 Radford Pond (S)	9/17/07	11:15
10	Robertson (G)	9/17/07	11:25

unaccessible

(S) Surface Water

(G) Ground Water

Comments:

Garcia well is not working - could not collect sample

URI, Inc

Quarterly Ground and Surface Water Samples KVD

Quarter: 4

	Location	Date	Time
1	Garcia well (G)	Well Down	No Sample
2	S1 Road Crossing (S)	Dried up	No Water
3	S8 Road Crossing (S)	Dried up	No Water
4	Cumberland well (G)	12/26/07	11:30 AM
5	S3 FM 1118 Crossing (S)	12/26/07	11:50 AM
6	W-14 Lehaman well (G)	12/26/07	12:00 pm
7	Lake McKnight (S)	12/26/07	12:10 pm
8	Radford Well (G)	12/26/07	12:20 pm
9	S4 Radford Pond (S)	12/26/07	12:30 pm
10	Robertson (G)	12/26/07	12:42 pm

(S) Surface Water

(G) Ground Water

Comments:

Garcia Well is not operating - could not collect Sample

S1 Road Crossing has no standing water

S8 Road Crossing has no standing water

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
April 18, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: 1st Qtr. Ground Water
Garcia Well
1035 03-24-08

Method Number		Analysis Date
SM4500-H B.	pH ----- 7.81	03-25-08
SM2510 B.	Specific Conductance 1632 umhos/cm @ 25 Deg.C.	03-25-08
D2907	Uranium, mg/L ----- 0.729	04-17-08
900.0	*Gross Alpha Activity, pCi/L ----- 252	04-04-08
	Counting Error, pCi/L ----- +/- 14	
900.0	*Gross Beta Activity, pCi/L ----- 56	04-04-08
	Counting Error, pCi/L ----- +/- 5	
7500-Ra C.	Radium 226, pCi/L ----- 1.3	04-11-08
	Counting Error, pCi/L ----- +/- 0.1	

Analysts: Nixon & Moore

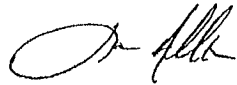
* Method: 900.0 Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M46-384

Respectfully Submitted,


Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
July 28, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 2008 2nd Quarter Ground Water
Garcia Well
0955 06-25-08

Method Number		Analysis Date
SM4500-H B.	pH ----- 7.75	06-26-08
SM2510 B.	Specific Conductance 1610 umhos/cm @ 25 Deg.C.	06-26-08
D2907	Uranium, mg/L ----- 0.649	07-22-08
900.0	*Gross Alpha Activity, pCi/L ----- 575	06-30-08
	Counting Error, pCi/L ----- +/- 29	
900.0	*Gross Beta Activity, pCi/L ----- 78	06-30-08
	Counting Error, pCi/L ----- +/- 6	
7500-Ra C.	Radium 226, pCi/L ----- 1.6	07-07-08
	Counting Error, pCi/L ----- +/- 0.1	

NELAP Certificate No. T104704370-08-TX

Analysts: Nixon & Moore

* Method: 900.0 Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.
Alternate method for determining activity may be considered.

Lab. No. M46-847

Respectfully Submitted,


Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
November 04, 2008

URI, INC.
405 SH 121 Bypass Bldg. A, Suite 220
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 3rd Qtr. Ground Water
Garcia Well
0915 08-22-08

Method Number		Analysis Date
150.2	pH ----- 8.18	08-25-08
120.1	Specific Conductance 1590 umhos/cm @ 25 Deg.C.	09-11-08
D2907	**Uranium, mg/L ----- 0.943	09-11-08
900.0	*Gross Alpha Activity, pCi/L ----- 608	08-26-08
	Counting Error, pCi/L ----- +/- 29	
900.0	*Gross Beta Activity, pCi/L ----- 93	08-26-08
	Counting Error, pCi/L ----- +/- 6	
7500-Ra C.	Radium 226, pCi/L ----- 2.8	09-08-08
	Counting Error, pCi/L ----- +/- 0.2	

**See attached report. Number converted from pCi/L to mg/L
(pCi/L/679mg) from Pace Analytical

Analyst: Moore/Nixon Xenco-Houston

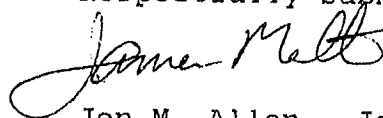
NELAP Certificate No. T104704370-08-TX

* Method: 900.0 Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.
Alternate method for determining activity may be considered.

Lab. No. M46-1035

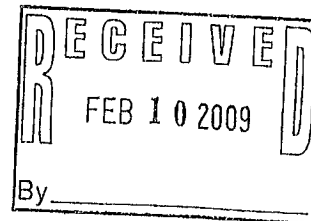
Respectfully Submitted,



Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
February 06, 2009

URI, INC.
405 SH 121 Bypass Bldg. A, Suite 220
Lewisville, Texas 75067



Report of Analysis

Identification: 321231-001
KVD 4th Qtr. Ground Water
Garcia Well
1435 12-23-08

Method Number		Analysis Date
SM4500H	pH ----- 7.88	12-24-08
120.1	Specific Conductance 1640 umhos/cm @ 25 Deg.C.	01-06-09
D2907	Uranium, mg/L ----- 0.502	02-02-09
900.0	*Gross Alpha Activity, pCi/L ----- 558	01-08-09
	Counting Error, pCi/L ----- +/- 28	
900.0	*Gross Beta Activity, pCi/L ----- 150	01-08-09
	Counting Error, pCi/L ----- +/- 7	
7500-Ra C.	Radium 226, pCi/L ----- 1.0	01-19-09
	Counting Error, pCi/L ----- +/- 0.2	

Analyst: Moore/Nixon Xenco-Dallas

NELAP Certificate No. T104704370-08-TX

* Method: 900.0 Calibration: Alpha - Th230 Beta - Cs137

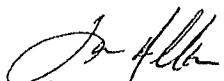
*Note: EPA Method 900.0 is a drinking water screening procedure.

Its application to waters of high total dissolved solids may result in unacceptably high counting errors due to limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M46-1531

Respectfully Submitted,


Jon M. Allen - James Mathis



Certificate of Analysis Summary 328890

URI, Inc., Kingsville, TX

Project Name: KVD GW Q1 2009

Project Id:

Contact: Joshua Holland

Project Location: KVD

Date Received in Lab: Tue Mar-31-09 04:20 pm

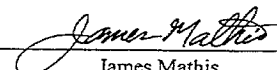
Report Date: 01-JUN-09

Project Manager: James Mathis

<i>Analysis Requested</i>	<i>Lab Id:</i>	328890-001	328890-002	328890-003	328890-004		
	<i>Field Id:</i>	Garcia Well	Cumberland Well	Radford Well	Robertson Well		
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER		
	<i>Sampled:</i>	Mar-31-09 09:40	Mar-31-09 10:00	Mar-31-09 11:30	Mar-31-09 11:55		
Anions by EPA 300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-01-09 11:17	Apr-01-09 11:41	Apr-01-09 12:05	Apr-01-09 12:30		
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Chloride		227 D 5.00	203 D 5.00	230 D 5.00	308 D 5.00		
Fluoride		0.689 0.500	0.576 0.500	0.584 0.500	0.592 0.500		
Nitrate as N		1.37 0.113	2.48 0.113	2.49 0.113	BRL 0.113		
Sulfate		183 D 5.00	209 D 5.00	222 D 5.00	291 D 5.00		
EPA 900	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-14-09 10:15	Apr-14-09 10:15	Apr-14-09 10:15	Apr-14-09 10:15		
	<i>Units/RL:</i>	pCi/L RL	pCi/L RL	pCi/L RL	pCi/L RL		
Beta, gross		90.0 6.00	15.0 3.00	16.0 4.00	21.0 5.00		
Alpha, Gross		591 21.0	34.0 8.00	28.0 8.00	31.0 8.00		
Mercury by EPA 245.1	<i>Extracted:</i>	Apr-03-09 08:15	Apr-03-09 08:15	Apr-03-09 08:15	Apr-03-09 08:15		
	<i>Analyzed:</i>	Apr-03-09 12:39	Apr-03-09 12:47	Apr-03-09 12:48	Apr-03-09 12:50		
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Mercury		BRL 0.0001	BRL 0.0001	BRL 0.0001	BRL 0.0001		
Metals per ICP by EPA 200.7	<i>Extracted:</i>	Apr-06-09 07:00	Apr-06-09 07:00	Apr-06-09 07:00	Apr-06-09 07:00		
	<i>Analyzed:</i>	Apr-06-09 12:58	Apr-06-09 13:02	Apr-06-09 13:03	Apr-06-09 13:04		
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Arsenic		BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010		
Cadmium		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005		
Iron		0.048 0.030	0.124 0.030	BRL 0.030	0.066 0.030		
Manganese		BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010		
Molybdenum		0.064 0.010	0.014 0.010	BRL 0.010	0.016 0.010		
Selenium		0.012 0.010	BRL 0.010	0.015 0.010	BRL 0.010		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


James Mathis
Laboratory Director



Certificate of Analysis Summary 328890

URI, Inc., Kingsville, TX

Project Name: KVD GW Q1 2009

Project Id:

Contact: Joshua Holland

Project Location: KVD

Date Received in Lab: Tue Mar-31-09 04:20 pm

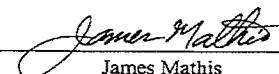
Report Date: 01-JUN-09

Project Manager: James Mathis

Analysis Requested	Lab Id:	328890-001	328890-002	328890-003	328890-004		
	Field Id:	Garcia Well	Cumberland Well	Radford Well	Robertson Well		
	Depth:						
	Matrix:	WATER	WATER	WATER	WATER		
	Sampled:	Mar-31-09 09:40	Mar-31-09 10:00	Mar-31-09 11:30	Mar-31-09 11:55		
Radium 226 by EPA 903.1	Extracted:						
	Analyzed:	Apr-01-09 13:50	Apr-01-09 13:50	Apr-01-09 13:50	Apr-01-09 13:50		
	Units/RL:	pCi/L RL	pCi/L RL	pCi/L RL	pCi/L RL		
Radon-222		1330 19.0	239 8.00	14.0 2.00	233 8.00		
Radium 226 by SM7500-Ra C	Extracted:						
	Analyzed:	Apr-20-09 12:50	Apr-20-09 12:50	Apr-20-09 12:50	Apr-20-09 12:50		
	Units/RL:	pCi/L RL	pCi/L RL	pCi/L RL	pCi/L RL		
Radium-226		1.70 0.100	0.200 0.100	0.300 0.100	0.200 0.100		
Specific Conductance by EPA 120.1	Extracted:						
	Analyzed:	Apr-10-09 11:04	Apr-10-09 11:06	Apr-10-09 11:08	Apr-10-09 11:10		
	Units/RL:	uS/cm RL	uS/cm RL	uS/cm RL	uS/cm RL		
Conductivity		1620 50.0	1620 50.0	1670 50.0	2020 50.0		
TDS by SM2540C	Extracted:						
	Analyzed:	Apr-06-09 15:35	Apr-06-09 15:40	Apr-06-09 15:45	Apr-06-09 15:50		
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Total dissolved solids		962 5.00	944 5.00	992 5.00	1200 5.00		
Uranium by ASTM D2907	Extracted:						
	Analyzed:	May-07-09 13:30	May-07-09 13:30	May-07-09 13:30	May-07-09 13:30		
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Uranium		0.7 0.0010	0.02 0.0010	0.01 0.0010	BRL 0.0010		
pH, Electrometric by EPA 150.2	Extracted:						
	Analyzed:	Apr-01-09 16:02	Apr-01-09 16:04	Apr-01-09 16:08	Apr-01-09 16:10		
	Units/RL:	SU RL	SU RL	SU RL	SU RL		
pH		8.33	8.22	8.32	7.97		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


James Mathis
Laboratory Director



Certificate of Analysis Summary 336262

URI, Inc., Kingsville, TX

Project Name: KVD GW Q2 2009

Project Id: --

Contact: Joshua Holland

Project Location: KVD

Date Received in Lab: Tue Jun-23-09 03:30 pm

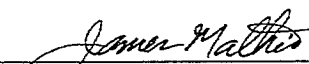
Report Date: 19-OCT-09

Project Manager: James Mathis

Analysis Requested	Lab Id:	336262-001	336262-002	336262-003		
	Field Id:	Garcia Well	Radford Well	Robertson Well		
	Depth:					
	Matrix:	WATER	WATER	WATER		
	Sampled:	Jun-23-09 10:08	Jun-23-09 12:10	Jun-23-09 12:34		
Anions by EPA 300 SUB: T104704215-08B-TX	Extracted:					
	Analyzed:	Jun-24-09 14:26	Jun-24-09 14:50	Jun-24-09 15:14		
	Units/RL:	mg/L RL	mg/L RL	mg/L RL		
Chloride		240 D 5.00	241 D 5.00	330 D 5.00		
Fluoride		0.676 0.500	0.576 0.500	0.596 0.500		
Nitrate as N		1.79 0.113	2.90 0.113	BRL		
Sulfate		183 D 5.00	219 D 5.00	305 D 5.00		
Gross Alpha and Beta by SM7110B NO_CERT#	Extracted:					
	Analyzed:	Jul-14-09 15:10	Jul-14-09 15:10	Jul-14-09 15:10		
	Units/RL:	pCi/L RL	pCi/L RL	pCi/L RL		
Beta, gross		120.0 7.000	16.00 3.000	7.600 3.500		
Alpha, Gross		494.0 26.00	19.00 6.000	2.1 4.700		
Mercury by EPA 245.1 SUB: T104704295-08-TX	Extracted:	Jul-27-09 05:35	Jul-27-09 05:35	Jul-27-09 05:35		
	Analyzed:	Jul-27-09 09:13	Jul-27-09 09:15	Jul-27-09 09:21		
	Units/RL:	mg/L RL	mg/L RL	mg/L RL		
Mercury		BRL 0.0001	BRL 0.0001	BRL 0.0001		
Metals per ICP by EPA 200.7 SUB: T104704295-08-TX	Extracted:	Jul-24-09 07:00	Jul-24-09 07:00	Jul-24-09 07:00		
	Analyzed:	Jul-27-09 09:46	Jul-27-09 09:50	Jul-27-09 09:51		
	Units/RL:	mg/L RL	mg/L RL	mg/L RL		
Arsenic		BRL 0.010	BRL 0.010	BRL 0.010		
Cadmium		BRL 0.005	BRL 0.005	BRL 0.005		
Iron		BRL 0.030	BRL 0.030	BRL 0.030		
Manganese		BRL 0.010	BRL 0.010	0.011 0.010		
Molybdenum		0.056 0.010	0.011 0.010	0.012 0.010		
Selenium		BRL 0.010	0.017 0.010	BRL 0.010		

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James Mathis
Corpus Christi Lab Director



Certificate of Analysis Summary 336262

URI, Inc., Kingsville, TX

Project Name: KVD GW Q2 2009

Project Id: --

Contact: Joshua Holland

Project Location: KVD

Date Received in Lab: Tue Jun-23-09 03:30 pm

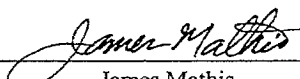
Report Date: 19-OCT-09

Project Manager: James Mathis

Analysis Requested	Lab Id:	336262-001	336262-002	336262-003			
	Field Id:	Garcia Well	Radford Well	Robertson Well			
	Depth:						
	Matrix:	WATER	WATER	WATER			
	Sampled:	Jun-23-09 10:08	Jun-23-09 12:10	Jun-23-09 12:34			
Radium 226 by SM7500-Ra C NO_CERT#	Extracted:						
	Analyzed:	Jul-24-09 09:20	Jul-24-09 09:20	Jul-24-09 09:20			
	Units/RL:	pCi/L RL	pCi/L RL	pCi/L RL			
Radium-226		1.10 0.100	0.100 0.100	0.200 0.100			
Specific Conductance by EPA 120.1 SUB: T104704215-08B-TX	Extracted:						
	Analyzed:	Jun-29-09 15:30	Jun-29-09 15:32	Jun-29-09 15:34			
	Units/RL:	uS/cm RL	uS/cm RL	uS/cm RL			
Conductivity		1540 50.0	1610 50.0	1970 50.0			
TDS by SM2540C SUB: T104704215-08B-TX	Extracted:						
	Analyzed:	Jun-26-09 07:10	Jun-26-09 07:12	Jun-26-09 07:14			
	Units/RL:	mg/L RL	mg/L RL	mg/L RL			
Total dissolved solids		904 5.00	958 5.00	1160 5.00			
Uranium by ASTM D2907 NO_CERT#	Extracted:						
	Analyzed:	Jul-30-09 13:40	Jul-30-09 13:40	Jul-30-09 13:40			
	Units/RL:	mg/L RL	mg/L RL	mg/L RL			
Uranium		0.6 0.0030	0.02 0.0030	BRL 0.0030			
pH, Electrometric by EPA 150.2 SUB: T104704215-08B-TX	Extracted:						
	Analyzed:	Jun-24-09 15:20	Jun-24-09 15:22	Jun-24-09 15:24			
	Units/RL:	SU RL	SU RL	SU RL			
pH		7.88	8.27	7.98			

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James Mathis
Corpus Christi Lab Director



Certificate of Analysis Summary 345775

URI, Inc., Kingsville, TX

Project Name: KVD GW Q3 2009

Project Id: ---

Contact: Joshua Holland

Project Location: KVD

Date Received in Lab: Wed Sep-23-09 04:50 pm

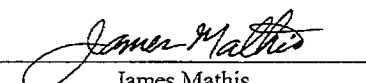
Report Date: 11-DEC-09

Project Manager: James Mathis

Analysis Requested	Lab Id:	345775-001	345775-002	345775-003			
	Field Id:	Garcia Well	Radford Well	Robertson Well			
	Depth:						
	Matrix:	WATER	WATER	WATER			
	Sampled:	Sep-23-09 11:25	Sep-23-09 12:15	Sep-23-09 12:55			
Anions by EPA 300	Extracted:						
SUB: T104704215-08B-TX	Analyzed:	Sep-25-09 13:51	Sep-25-09 14:15	Sep-25-09 14:40			
	Units/RL:	mg/L RL	mg/L RL	mg/L RL			
Chloride		248 D 5.00	250 D 5.00	337 D 5.00			
Fluoride		0.643 0.500	0.545 0.500	0.578 0.500			
Nitrate as N		2.45 0.113	3.77 0.113	0.890 0.113			
Sulfate		197 D 5.00	239 D 5.00	315 D 5.00			
Gross Alpha and Beta by SM7110B	Extracted:						
	Analyzed:	Oct-09-09 10:40	Oct-09-09 10:40	Oct-09-09 10:40			
	Units/RL:	pCi/L RL	pCi/L RL	pCi/L RL			
Beta, gross		84.00 6.000	18.00 4.000	14.00 4.000			
Alpha, Gross		503.0 26.00	29.00 7.000	11.00 6.000			
Mercury by EPA 245.1	Extracted:						
	Analyzed:	Oct-22-09 08:00	Oct-22-09 08:00	Oct-22-09 08:00			
	Units/RL:	ug/L RL	ug/L RL	ug/L RL			
Mercury		BRL 0.1000	BRL 0.1000	BRL 0.1000			
Metals by EPA 200.8	Extracted:						
SUB: T104704215-08B-TX	Analyzed:	Sep-25-09 14:30	Sep-25-09 14:30	Sep-25-09 14:30			
	Units/RL:	mg/L RL	mg/L RL	mg/L RL			
Arsenic		0.006 0.002	0.006 0.002	0.002 0.002			
Cadmium		BRL 0.001	BRL 0.001	BRL 0.001			
Iron		BRL 0.150	BRL 0.150	0.430 0.150			
Manganese		BRL 0.003	BRL 0.003	0.009 0.003			
Molybdenum		0.057 0.010	BRL 0.010	0.018 0.010			
Selenium		0.011 0.003	0.017 0.003	BRL 0.003			

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James Mathis
Corpus Christi Lab Director



Certificate of Analysis Summary 345775

URI, Inc., Kingsville, TX

Project Name: KVD GW Q3 2009

Project Id: ----

Contact: Joshua Holland

Project Location: KVD

Date Received in Lab: Wed Sep-23-09 04:50 pm

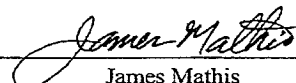
Report Date: 11-DEC-09

Project Manager: James Mathis

Analysis Requested	Lab Id:	345775-001	345775-002	345775-003			
	Field Id:	Garcia Well	Radford Well	Robertson Well			
	Depth:						
	Matrix:	WATER	WATER	WATER			
	Sampled:	Sep-23-09 11:25	Sep-23-09 12:15	Sep-23-09 12:55			
Radium 226 by SM7500-Ra C	Extracted:						
	Analyzed:	Nov-23-09 11:30	Nov-23-09 11:30	Nov-23-09 11:30			
	Units/RL:	pCi/L RL	pCi/L RL	pCi/L RL			
Radium-226		1.00 0.200	0.100 0.100	0.100 0.100			
Radon 222 by EPA 903.1	Extracted:						
	Analyzed:	Sep-24-09 11:30	Sep-24-09 11:30	Sep-24-09 11:30			
	Units/RL:	pCi/L RL	pCi/L RL	pCi/L RL			
Radon-222		774 5.00	29.0 5.00	81.0 5.00			
Specific Conductance by EPA 120.1 SUB: T104704215-08B-TX	Extracted:						
	Analyzed:	Sep-25-09 12:08	Sep-25-09 12:10	Sep-25-09 12:12			
	Units/RL:	uS/cm RL	uS/cm RL	uS/cm RL			
Conductivity		1630 50.0	1650 50.0	2050 50.0			
TDS by SM2540C SUB: T104704215-08B-TX	Extracted:						
	Analyzed:	Sep-24-09 17:10	Sep-24-09 17:11	Sep-24-09 17:12			
	Units/RL:	mg/L RL	mg/L RL	mg/L RL			
Total dissolved solids		703 5.00	640 5.00	797 5.00			
Uranium by ASTM D2907	Extracted:						
	Analyzed:	Nov-02-09 14:00	Nov-02-09 14:00	Nov-02-09 14:00			
	Units/RL:	mg/L RL	mg/L RL	mg/L RL			
Uranium		0.072 0.003	0.013 0.003	BRL 0.003			
pH, Electrometric by EPA 150.2 SUB: T104704215-08B-TX	Extracted:						
	Analyzed:	Sep-24-09 15:36	Sep-24-09 15:38	Sep-24-09 15:40			
	Units/RL:	SU RL	SU RL	SU RL			
pH		7.96	8.34	8.18			

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James Mathis
Corpus Christi Lab Director

Uranium Resources Inc.

Project ID:

Sample ID: GARCIA WELL-GW-KVD

ACZ Sample ID: **L79888-01**

Date Sampled: 12/14/09 14:55

Date Received: 12/15/09

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	Xc	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.005	B		mg/L	0.003	0.01	01/05/10 13:00	erf
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	01/05/10 13:00	erf
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	12/29/09 19:10	aeh
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	12/29/09 19:10	aeh
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	12/29/09 21:12	pmc
Molybdenum, dissolved	M200.7 ICP	0.06			mg/L	0.01	0.05	12/30/09 17:23	aeh
Selenium, dissolved	M200.8 ICP-MS	0.0078			mg/L	0.0005	0.003	01/05/10 13:00	erf
Uranium, dissolved	M200.8 ICP-MS	0.7840			mg/L	0.0005	0.003	01/05/10 13:00	erf

Wet Chemistry

Parameter	EPA Method	Result	Qual	Xc	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	250			mg/L	10	50	12/21/09 17:54	aml
Conductivity @25C	SM2510B	1610			umhos/cm	1	10	12/17/09 20:40	abm
Fluoride	SM4500F-C	0.5	B	*	mg/L	0.1	0.5	12/29/09 11:12	abm
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.14			mg/L	0.02	0.1	01/07/10 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.14			mg/L	0.02	0.1	12/15/09 19:02	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	12/15/09 19:02	pjb
pH (lab)	SM4500H+ B								
pH		8.3	H		units	0.1	0.1	12/17/09 0:00	abm
pH measured at		22.0			C	0.1	0.1	12/17/09 0:00	abm
Residue, Filterable (TDS) @180C	SM2540C	930			mg/L	10	20	12/16/09 15:37	abm
Sulfate	375.4 - Turbidimetric	180		*	mg/L	10	50	12/22/09 16:38	aml

Uranium Resources Inc.

Project ID:

Sample ID: GARCIA WELL-GW-KVD

Locator:

ACZ Sample ID: **L79888-01**

Date Sampled: 12/14/09 14:55

Date Received: 12/15/09

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Sample Date	Alpha	Beta	Gamma	Unit	Method
Gross Alpha	12/21/09 20:53	440	26	3	pCi/L	mwm
Gross Beta	12/21/09 20:53	140	9.9	6.4	pCi/L	mwm

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Sample Date	Alpha	Beta	Gamma	Unit	Method
Radium 226, dissolved	12/23/09 6:58	0.81	0.13	0.19	pCi/L	mwm

Radon-222

Prep Method:

SM7500-RN

Parameter	Sample Date	Alpha	Beta	Gamma	Unit	Method
Radon-222	12/15/09 21:59	1700	77	20	pCi/L	* mtb

Uranium Resources Inc.

Project ID: KVD 1ST QTR GW

Sample ID: GARCIA WELL

ACZ Sample ID: **L81172-01**

Date Sampled: 03/16/10 11:35

Date Received: 03/17/10

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	250			mg/L	10	50	03/24/10 15:47	aml
Fluoride	SM4500F-C	0.6			mg/L	0.1	0.5	03/22/10 14:24	jlf
Lab Filtration	SM 3030 B			*				03/18/10 11:18	jlf
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.28			mg/L	0.02	0.1	03/31/10 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.28		*	mg/L	0.02	0.1	03/17/10 23:22	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	03/17/10 23:22	pjb
Residue, Filterable (TDS) @180C	SM2540C	930		*	mg/L	10	20	03/18/10 14:16	jjc
Sulfate	375.4 - Turbidimetric	190		*	mg/L	20	100	03/26/10 10:37	aml

Uranium Resources Inc.

Project ID: KVD 1ST QTR GW
 Sample ID: GARCIA WELL

ACZ Sample ID: **L81204-01**
 Date Sampled: 03/16/10 11:35
 Date Received: 03/19/10
 Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0046			mg/L	0.0005	0.002	04/01/10 20:18	erf
Cadmium, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	04/01/10 20:18	erf
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	03/24/10 12:58	ear
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/24/10 12:58	ear
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	04/06/10 19:54	pmc
Molybdenum, dissolved	M200.7 ICP	0.09			mg/L	0.01	0.05	03/24/10 12:58	ear
Selenium, dissolved	M200.8 ICP-MS	0.0094			mg/L	0.0001	0.0005	04/01/10 20:18	erf
Uranium, dissolved	M200.8 ICP-MS	0.7610			mg/L	0.0005	0.003	04/06/10 0:45	erf

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	SM2510B	1630			umhos/cm	1	10	03/19/10 21:45	jlf
Lab Filtration & Acidification	SM 3030 B			*				03/19/10 15:00	jlg
Lab Filtration & Acidification	SM 3030 B			*				03/22/10 13:55	aeH
pH (lab)	SM4500H+ B								
pH		8.4	H		units	0.1	0.1	03/19/10 0:00	jlf
pH measured at		22.0			C	0.1	0.1	03/19/10 0:00	jlf

Uranium Resources Inc.

Project ID: KVD 1ST QTR GW
Sample ID: GARCIA WELL
Locator:

ACZ Sample ID: **L81204-01**
Date Sampled: 03/16/10 11:35
Date Received: 03/19/10
Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (1σ)	ULO	Units	Q.C.	Analysis
Gross Alpha	04/06/10 20:19		380	25	3.2	pCi/L	*	lig
Gross Beta	04/06/10 20:19		190	11	5.7	pCi/L		lig

Radium 226, dissolved
M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (1σ)	ULO	Units	Q.C.	Analysis
Radium 226, dissolved	04/13/10 7:01		1.2	0.17	0.26	pCi/L	*	dhc

Uranium Resources Inc.

Project ID: KVD 1ST QTR GW
 Sample ID: GARCIA WELL
 Locator:

ACZ Sample ID: **L81172-01**
 Date Sampled: 03/16/10 11:35
 Date Received: 03/17/10
 Sample Matrix: Ground Water

Radon-222
 SM7500-RN

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	Xc	Analysis
Radon-222	03/18/10 22:00		1500	82	23	pCi/L	*	mtb

Uranium Resources Inc.

Project ID: KVD 2ND QTR GW
Sample ID: GARCIA WELL

ACZ Sample ID: **L82924-01**

Date Sampled: 06/22/10 10:00

Date Received: 06/25/10

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0040			mg/L	0.0005	0.002	07/13/10 4:51	msh
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	07/13/10 4:51	msh
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	07/06/10 18:05	ear
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	07/06/10 18:05	ear
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	07/20/10 18:00	erf
Molybdenum, dissolved	M200.7 ICP	0.09			mg/L	0.01	0.05	07/06/10 18:05	ear
Selenium, dissolved	M200.8 ICP-MS	0.0076			mg/L	0.0001	0.0003	07/13/10 4:51	msh
Uranium, dissolved	M200.8 ICP-MS	0.848			mg/L	0.001	0.005	07/14/10 3:26	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	SM2510B	1630			umhos/cm	1	10	07/01/10 18:47	jjc
Lab Filtration & Acidification	SM 3030 B			*				06/25/10 15:00	llg
Lab Filtration & Acidification	SM 3030 B			*				06/29/10 8:03	cra
pH (lab)	SM4500H+ B								
pH		8.4	H		units	0.1	0.1	07/01/10 0:00	jjc
pH measured at		22.0			C	0.1	0.1	07/01/10 0:00	jjc

Uranium Resources Inc.

Project ID: KVD 2ND QTR GW

Sample ID: GARCIA WELL

ACZ Sample ID: **L82847-01**

Date Sampled: 06/22/10 10:00

Date Received: 06/23/10

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XO	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	240	*		mg/L	10	50	07/01/10 14:20	aml
Fluoride	SM4500F-C	0.4	B	*	mg/L	0.1	0.5	07/01/10 20:02	jlf
Lab Filtration	SM 3030 B			*				06/23/10 12:42	lhb
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	2.91			mg/L	0.02	0.1	07/07/10 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	2.91		*	mg/L	0.02	0.1	06/23/10 20:18	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		HU	*	mg/L	0.01	0.05	06/29/10 21:47	pjb
Residue, Filterable (TDS) @180C	SM2540C	980			mg/L	10	20	06/28/10 11:18	lhb
Sulfate	375.4 - Turbidimetric	230		*	mg/L	10	50	06/30/10 12:36	aml

Uranium Resources Inc.

Project ID: KVD 2ND QTR GW
 Sample ID: GARCIA WELL
 Locator:

ACZ Sample ID: **L82924-01**
 Date Sampled: 06/22/10 10:00
 Date Received: 06/25/10
 Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
 M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (c/p)	LLD	Units	%CV	Analyst
Gross Alpha	07/13/10 8:49		470	28	3.3	pCi/L		tcd
Gross Beta	07/13/10 8:49		210	11	5.8	pCi/L		tcd

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (c/p)	LLD	Units	%CV	Analyst
Radium 226, dissolved	07/07/10 12:33		0.91	0.14	0.19	pCi/L		mwm

Uranium Resources Inc.

Project ID: KVD 2ND QTR GW
 Sample ID: GARCIA WELL
 Locator:

ACZ Sample ID: **L82847-01**
 Date Sampled: 06/22/10 10:00
 Date Received: 06/23/10
 Sample Matrix: Ground Water

Radon-222
 SM7500-RN

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	U/L	Units	Xc	Analysis
Radon-222	06/23/10 21:01		1400	67	18	pCi/L	*	mwm

Uranium Resources Inc.

Project ID: KVD 3rd QTR GW

Sample ID: GARCIA WELL

ACZ Sample ID: **L84624-01**

Date Sampled: 09/28/10 11:05

Date Received: 10/01/10

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0048			mg/L	0.0005	0.002	10/20/10 13:09	msh
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	10/20/10 13:09	msh
Iron, dissolved	M200.7 ICP	0.05	B		mg/L	0.02	0.05	10/14/10 13:14	ear
Manganese, dissolved	M200.7 ICP	0.007	B		mg/L	0.005	0.03	10/14/10 13:14	ear
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	10/19/10 13:57	erf
Molybdenum, dissolved	M200.7 ICP	0.08			mg/L	0.01	0.05	10/14/10 13:14	ear
Selenium, dissolved	M200.8 ICP-MS	0.0079			mg/L	0.0001	0.0003	10/20/10 13:09	msh
Uranium, dissolved	M200.8 ICP-MS	0.770			mg/L	0.001	0.005	10/21/10 13:20	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	SM2510B	1680			umhos/cm	1	10	10/04/10 23:52	abm
Lab Filtration & Acidification	SM 3030 B			*				10/05/10 15:25	ijg
Lab Filtration & Acidification	SM 3030 B			*				10/05/10 11:36	cra
pH (lab)	SM4500H+ B								
pH		8.6	H		units	0.1	0.1	10/02/10 0:00	lhb
pH measured at		21.0			C	0.1	0.1	10/02/10 0:00	lhb

Uranium Resources Inc.

Project ID: KVD 3rd QTR GW
 Sample ID: GARCIA WELL

ACZ Sample ID: **L84557-01**
 Date Sampled: 09/28/10 11:05
 Date Received: 09/29/10
 Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	240			mg/L	10	50	10/13/10 14:10	aml
Fluoride	SM4500F-C	0.6		*	mg/L	0.1	0.5	10/08/10 15:23	jjc
Lab Filtration	SM 3030 B			*				09/29/10 15:31	jjc
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.40			mg/L	0.02	0.1	10/21/10 12:02	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.40			mg/L	0.02	0.1	09/29/10 19:58	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	09/29/10 19:58	pjb
Residue, Filterable (TDS) @180C	SM2540C	970			mg/L	10	20	10/01/10 16:01	jjc
Sulfate	D516-02 - Turbidimetric	200		*	mg/L	10	50	10/20/10 9:05	jlf

Uranium Resources Inc.

Project ID: KVD 3rd QTR GW
 Sample ID: GARCIA WELL
 Locator:

ACZ Sample ID: **L84624-01**
 Date Sampled: 09/28/10 11:05
 Date Received: 10/01/10
 Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
 M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	%	Analyst
Gross Alpha	10/13/10 16:40		460	28	3.4	pCi/L		tcd
Gross Beta	10/13/10 16:40		98	8.4	6.1	pCi/L		tcd

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	%	Analyst
Radium 226, dissolved	10/13/10 17:21		1.3	0.18	0.27	pCi/L		tcd

Uranium Resources Inc.

Project ID: KVD 3rd QTR GW
Sample ID: GARCIA WELL
Locator:

ACZ Sample ID: **L84557-01**
Date Sampled: 09/28/10 11:05
Date Received: 09/29/10
Sample Matrix: Ground Water

Radon-222
SM7500-RN

Prep Method:

Parameter	Method	Date	Exp. Date	Result	Error (%)	Std. Dev.	Units	Coef.	Analyst
Radon-222		09/29/10 22:27		180	34	19	pCi/L	*	jjg

Uranium Resources Inc.

Project ID: KVD 4th Qtr GW

Sample ID: GARCIA WELL

ACZ Sample ID: **L85939-01**

Date Sampled: 12/20/10 12:50

Date Received: 12/22/10

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0029			mg/L	0.0005	0.002	01/07/11 13:29	msh
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	01/07/11 13:29	msh
Iron, dissolved	M200.7 ICP	0.02	B		mg/L	0.02	0.05	01/08/11 15:25	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	01/08/11 15:25	aeb
Mercury, dissolved	M7470A CVA		U		mg/L	0.0002	0.001	01/11/11 14:31	erf
Molybdenum, dissolved	M200.7 ICP	0.07		*	mg/L	0.01	0.05	01/07/11 2:08	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0083			mg/L	0.0001	0.0003	01/07/11 13:29	msh
Uranium, dissolved	M200.8 ICP-MS	0.6990			mg/L	0.0005	0.003	01/08/11 3:22	pmc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	240			mg/L	10	50	01/07/11 13:44	jlf
Conductivity @25C	SM2510B	1580			umhos/cm	1	10	12/28/10 19:10	abm
Fluoride	SM4500F-C	0.6		*	mg/L	0.1	0.5	01/04/11 17:01	abm
Lab Filtration	SM 3030 B			*				12/27/10 10:11	csa
Lab Filtration & Acidification	SM 3030 B			*				12/29/10 17:35	scp
Lab Filtration & Acidification	SM 3030 B			*				12/27/10 15:00	jjg
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.35	H		mg/L	0.02	0.1	01/13/11 15:50	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.35	H	*	mg/L	0.02	0.1	12/22/10 18:38	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		HU	*	mg/L	0.01	0.05	12/22/10 18:38	pjb
pH (lab)	SM4500H+ B								
pH		8.4	H		units	0.1	0.1	12/28/10 0:00	abm
pH measured at		19.0			C	0.1	0.1	12/28/10 0:00	abm
Residue, Filterable (TDS) @180C	SM2540C	920			mg/L	10	20	12/27/10 12:48	cra
Sulfate	D516-02 - Turbidimetric	190		*	mg/L	5	30	01/08/11 12:07	itk

Uranium Resources Inc.

Project ID: KVD 4th Qtr GW
 Sample ID: GARCIA WELL
 Locator:

ACZ Sample ID: **L85939-01**
 Date Sampled: 12/20/10 12:50
 Date Received: 12/22/10
 Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
 M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Flow (L/min)	Time (min)	Units	QC	Analysis
Gross Alpha	12/29/10 17:34		440	29	3.7	pCi/L	*	tcd
Gross Beta	12/29/10 17:34		42	6.7	6.3	pCi/L		tcd

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Flow (L/min)	Time (min)	Units	QC	Analysis
Radium 226, dissolved	01/11/11 15:34		1.1	0.14	0.22	pCi/L		tcd

Radon-222
 SM7500-RN

Prep Method:

Parameter	Measure Date	Prep Date	Result	Flow (L/min)	Time (min)	Units	QC	Analysis
Radon-222	12/22/10 20:28		1700	86	24	pCi/L	*	tcd

Uranium Resources Inc.

Project ID: KVD Q1 SW ^{SW} _{GW}
Sample ID: GARCIA WELL

ACZ Sample ID: **L87165-04**

Date Sampled: 03/28/11 13:00

Date Received: 03/29/11

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0049			mg/L	0.0005	0.002	04/09/11 22:18	scp
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	04/09/11 22:18	scp
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	04/06/11 12:07	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	04/04/11 21:43	jjc
Mercury, dissolved	M7470A CVAA		U	*	mg/L	0.0002	0.001	04/13/11 17:50	erf
Molybdenum, dissolved	M200.7 ICP	0.07		*	mg/L	0.01	0.05	04/04/11 21:43	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0108		*	mg/L	0.0001	0.0003	04/09/11 22:18	scp
Uranium, dissolved	M200.8 ICP-MS	0.624			mg/L	0.001	0.005	04/11/11 20:20	scp

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	240		*	mg/L	10	50	04/04/11 10:41	ccp
Conductivity @25C	SM2510B	1490			umhos/cm	1	10	03/30/11 12:59	las
Fluoride	SM4500F-C	0.6			mg/L	0.1	0.5	04/06/11 13:14	abm
Lab Filtration	SM 3030 B			*				03/31/11 21:03	las
Lab Filtration & Acidification	SM 3030 B			*				03/29/11 19:30	jig
Lab Filtration & Acidification	SM 3030 B			*				03/31/11 15:05	jic
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.55	H		mg/L	0.02	0.1	04/29/11 10:37	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.55			mg/L	0.02	0.1	03/29/11 22:47	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH		mg/L	0.01	0.05	03/31/11 22:28	pjb
pH (lab)	SM4500H+ B								
pH		8.4	H		units	0.1	0.1	04/01/11 0:00	las
pH measured at		20.0			C	0.1	0.1	04/01/11 0:00	las
Residue, Filterable (TDS) @180C	SM2540C	930			mg/L	10	20	03/31/11 20:04	las
Sulfate	D516-02 - Turbidimetric	181		*	mg/L	5	30	04/12/11 10:36	ccp

Uranium Resources Inc.

Project ID: KVD Q1 SW GW

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L87165-04**

Date Sampled: 03/28/11 13:00

Date Received: 03/29/11

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULD	Units	Xc	Analyst
Gross Alpha	04/13/11 16:37		370	26	3.4	pCi/L		jjg
Gross Beta	04/13/11 16:37		97	8.4	6.1	pCi/L		jjg

Radium 226, dissolved
M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULD	Units	Xc	Analyst
Radium 226, dissolved	04/12/11 15:05		1.4	0.18	0.43	pCi/L		jjg

Radon-222
SM7500-RN

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULD	Units	Xc	Analyst
Radon-222	03/30/11 20:46		1200	79	27	pCi/L	*	tcd

Uranium Resources Inc.

Project ID: KVD Q2 GW 2011

Sample ID: GARCIA WELL

ACZ Sample ID: **L88911-01**

Date Sampled: 06/29/11 07:55

Date Received: 06/30/11

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0040			mg/L	0.0005	0.002	07/20/11 4:38	msh
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	07/20/11 4:38	msh
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	07/05/11 21:05	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	07/05/11 21:05	jjc
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	07/13/11 11:32	erf
Molybdenum, dissolved	M200.7 ICP	0.04	B		mg/L	0.01	0.05	07/05/11 21:05	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0098			mg/L	0.0001	0.0003	07/20/11 4:38	msh
Uranium, dissolved	M200.8 ICP-MS	0.4919			mg/L	0.0005	0.003	07/20/11 20:00	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	240			mg/L	10	50	07/15/11 10:09	mpb
Conductivity @25C	SM2510B	1580			umhos/cm	1	10	07/01/11 5:04	cra
Fluoride	SM4500F-C	0.5		*	mg/L	0.1	0.5	07/01/11 17:56	las
Lab Filtration	SM 3030 B			*				07/01/11 11:44	ndm
Lab Filtration & Acidification	SM 3030 B			*				07/05/11 20:08	zsh
Lab Filtration & Acidification	SM 3030 B			*				06/30/11 16:35	mfm
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.77			mg/L	0.02	0.1	08/03/11 12:50	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.77			mg/L	0.02	0.1	06/30/11 20:36	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	06/30/11 20:36	pjb
pH (lab)	SM4500H+ B								
pH		8.4	H		units	0.1	0.1	07/01/11 0:00	cra
pH measured at		20.0			C	0.1	0.1	07/01/11 0:00	cra
Residue, Filterable (TDS) @180C	SM2540C	950			mg/L	10	20	07/05/11 13:38	ndm
Sulfate	D516-02 - Turbidimetric	179		*	mg/L	5	30	07/14/11 11:11	mpb

Uranium Resources Inc.

Project ID: KVD Q2 GW 2011

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L88911-01**

Date Sampled: 06/29/11 7:55

Date Received: 06/30/11

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	U/L	Units	XG	Analysis
Gross Alpha	08/02/11 13:31		260	20	2.9	pCi/L	*	thf
Gross Beta	08/02/11 13:31		120	8.4	5.3	pCi/L		thf

Radium 226, dissolved

M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	U/L	Units	XG	Analysis
Radium 226, dissolved	07/27/11 14:05		1.1	0.22	0.4	pCi/L	*	jlg

Radon-222

SM7500-RN

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	U/L	Units	XG	Analysis
Radon-222	07/01/11 21:48		2400	97	22	pCi/L	*	mtb

Uranium Resources Inc.

Project ID: KVD Q3 SW 2011

Sample ID: GARCIA WELL

ACZ Sample ID: **L90824-01**

Date Sampled: 09/26/11 15:00

Date Received: 09/27/11

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0033			mg/L	0.0005	0.002	10/13/11 4:09	pmc
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	10/13/11 4:09	pmc
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	09/29/11 20:06	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	09/29/11 20:06	aeb
Mercury, dissolved	M7470A CVAA		U	*	mg/L	0.0002	0.001	10/10/11 16:19	erf
Molybdenum, dissolved	M200.7 ICP	0.07			mg/L	0.01	0.05	09/29/11 20:06	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0103			mg/L	0.0001	0.0003	10/13/11 4:09	pmc
Uranium, dissolved	M200.8 ICP-MS	0.6130			mg/L	0.0005	0.003	10/15/11 6:35	pmc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	240		*	mg/L	10	50	10/11/11 11:03	lhb
Conductivity @25C	SM2510B	1560			umhos/cm	1	10	09/28/11 1:04	cra
Fluoride	SM4500F-C	0.6			mg/L	0.1	0.5	10/06/11 14:22	las
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							09/29/11 15:00	zsh
Lab Filtration (0.45um) & Acidification	M200.7/200.8							09/28/11 9:49	ndm
Lab Filtration (glass fiber filter)	SOPWC050							09/28/11 14:34	cra
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.54			mg/L	0.02	0.1	10/18/11 11:40	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.54		*	mg/L	0.02	0.1	09/27/11 21:45	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	09/27/11 21:45	pjb
pH (lab)	SM4500H+ B								
pH		8.5	H		units	0.1	0.1	09/28/11 0:00	cra
pH measured at		21.0			C	0.1	0.1	09/28/11 0:00	cra
Residue, Filterable (TDS) @180C	SM2540C	940			mg/L	10	20	09/29/11 9:43	ndm
Sulfate	D516-02 - Turbidimetric	191		*	mg/L	5	30	10/10/11 15:39	mpb

Uranium Resources Inc.

Project ID: KVD Q3 SW 2011

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L90824-01**

Date Sampled: 09/26/11 15:00

Date Received: 09/27/11

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	Xo	Analysis
Gross Alpha	10/06/11 12:24		320	24	3.3	pCi/L		thf
Gross Beta	10/06/11 12:24		87	7.8	5.8	pCi/L		thf

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	Xo	Analysis
Radium 226, dissolved	10/12/11 15:30		1.5	0.23	0.22	pCi/L		llg

Radon-222

Prep Method:

SM7500-RN

Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	Xo	Analysis
Radon-222	09/29/11 14:24		1900	98	28	pCi/L	*	mtb

Uranium Resources Inc.

Project ID: KVD Q4 GW 2011

Sample ID: GARCIA WELL

ACZ Sample ID: **L92474-01**

Date Sampled: 12/21/11 09:30

Date Received: 12/22/11

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0027			mg/L	0.0005	0.002	01/10/12 17:48	msh
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	01/10/12 17:48	msh
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	01/03/12 12:10	mfm
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	01/03/12 12:10	mfm
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	01/13/12 23:20	erf
Molybdenum, dissolved	M200.7 ICP	0.07			mg/L	0.01	0.05	01/03/12 12:10	mfm
Selenium, dissolved	M200.8 ICP-MS	0.0065			mg/L	0.0001	0.0003	01/10/12 17:48	msh
Uranium, dissolved	M200.8 ICP-MS	1.040			mg/L	0.001	0.005	01/12/12 19:54	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	250		*	mg/L	10	50	12/29/11 16:36	lhb
Conductivity @25C	SM2510B	1580			umhos/cm	1	10	12/28/11 18:02	las
Fluoride	SM4500F-C	0.7		*	mg/L	0.1	0.5	12/30/11 12:43	abm
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							01/04/12 8:25	mtb
Lab Filtration (0.45um) & Acidification	M200.7/200.8							12/29/11 17:21	mfm
Lab Filtration (glass fiber filter)	SOPWC050							12/22/11 16:21	las
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.79			mg/L	0.02	0.1	01/17/12 10:06	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.79			mg/L	0.02	0.1	12/22/11 22:52	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	12/22/11 22:52	pjb
pH (lab)	SM4500H+ B								
pH		8.4	H		units	0.1	0.1	12/28/11 0:00	las
pH measured at		19.0			C	0.1	0.1	12/28/11 0:00	las
Residue, Filterable (TDS) @180C	SM2540C	980			mg/L	10	20	12/22/11 16:25	las
Sulfate	D516-02 - Turbidimetric	194			mg/L	5	30	01/06/12 10:04	ccp

Uranium Resources Inc.

Project ID: KVD Q1 GW 2012

Sample ID: GARCIA WELL

ACZ Sample ID: **L93760-01**

Date Sampled: 03/26/12 11:15

Date Received: 03/27/12

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0029			mg/L	0.0005	0.002	04/05/12 16:32	msh
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	04/05/12 16:32	msh
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	04/03/12 12:13	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	04/03/12 12:13	aeb
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	04/09/12 18:18	erf
Molybdenum, dissolved	M200.7 ICP	0.07			mg/L	0.01	0.05	04/03/12 12:13	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0094			mg/L	0.0001	0.0003	04/05/12 16:32	msh
Uranium, dissolved	M200.8 ICP-MS	0.917			mg/L	0.001	0.005	04/07/12 2:23	pmc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	230			mg/L	10	50	04/04/12 9:45	ccp
Conductivity @25C	SM2510B	1590			umhos/cm	1	10	03/29/12 19:35	las
Fluoride	SM4500F-C	0.6		*	mg/L	0.1	0.5	04/05/12 12:46	abm
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							03/28/12 13:46	thf
Lab Filtration (0.45um) & Acidification	M200.7/200.8							03/28/12 11:02	mfm
Lab Filtration (glass fiber filter)	SOPWC050							03/27/12 13:05	las
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.98			mg/L	0.02	0.1	04/12/12 10:24	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.98		*	mg/L	0.02	0.1	03/27/12 23:11	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	03/27/12 23:11	pjb
pH (lab)	SM4500H+ B								
pH		8.3	H		units	0.1	0.1	03/29/12 0:00	las
pH measured at		20.0			C	0.1	0.1	03/29/12 0:00	las
Residue, Filterable (TDS) @180C	SM2540C	960			mg/L	10	20	03/28/12 12:20	las
Sulfate	D516-02 - Turbidimetric	197		*	mg/L	5	30	04/10/12 16:40	mpb

Uranium Resources Inc.

Project ID: KVD Q1 GW 2012

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L93760-01**

Date Sampled: 03/26/12 11:15

Date Received: 03/27/12

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Location	Depth	Result	Error	Unit	Unit	Unit	Unit
Gross Alpha	04/09/12 12:45		510	32	3.9	pCi/L	*	jjg
Gross Beta	04/09/12 12:45		160	10	5.8	pCi/L		jjg

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Location	Depth	Result	Error	Unit	Unit	Unit	Unit
Radium 226, dissolved	04/05/12 0:12		0.74	0.15	0.17	pCi/L		zsh

Radon-222

Prep Method:

SM7500-RN

Parameter	Location	Depth	Result	Error	Unit	Unit	Unit	Unit
Radon-222	03/27/12 21:57		200	33	18	pCi/L	*	jjg

Uranium Resources Inc.

Project ID: KVD Q2 GW 2012

Sample ID: GARCIA WELL

ACZ Sample ID: **L95367-01**

Date Sampled: 06/27/12 13:25

Date Received: 06/28/12

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0029			mg/L	0.0001	0.0005	07/14/12 5:10	pmc
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	07/14/12 5:10	pmc
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	07/09/12 17:58	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	07/09/12 17:58	jjc
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	07/16/12 22:09	mfm
Molybdenum, dissolved	M200.7 ICP	0.09			mg/L	0.01	0.05	07/11/12 10:32	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0095			mg/L	0.0001	0.0003	07/14/12 5:10	pmc
Uranium, dissolved	M200.8 ICP-MS	0.862			mg/L	0.001	0.005	07/16/12 18:53	scp

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	250		*	mg/L	10	50	07/16/12 11:15	ccp
Conductivity @25C	SM2510B	1540		*	umhos/cm	1	10	06/29/12 18:33	mia
Fluoride	SM4500F-C	0.6		*	mg/L	0.1	0.5	07/02/12 14:48	mia
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							07/02/12 12:40	zsh
Lab Filtration (0.45um) & Acidification	M200.7/200.8							06/28/12 14:43	mfm
Lab Filtration (glass fiber filter)	SOPWC050							06/28/12 11:53	las
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.04			mg/L	0.02	0.1	07/19/12 14:58	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.04		*	mg/L	0.02	0.1	06/28/12 23:28	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	06/28/12 23:28	pjb
pH (lab)	SM4500H+ B								
pH		8.3	H		units	0.1	0.1	06/29/12 0:00	mia
pH measured at		22.0			C	0.1	0.1	06/29/12 0:00	mia
Residue, Filterable (TDS) @180C	SM2540C	960		*	mg/L	10	20	06/28/12 13:41	las
Sulfate	D516-02 - Turbidimetric	210		*	mg/L	10	50	07/11/12 13:48	lhb

Uranium Resources Inc.

Project ID: KVD Q2 GW 2012
 Sample ID: GARCIA WELL
 Locator:

ACZ Sample ID: **L95367-01**
 Date Sampled: 06/27/12 13:25
 Date Received: 06/28/12
 Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
 M900.0

Prep Method:

Parameter	Date/Time	Count	Std Dev	Efficiency	Conc	Unit	Prep Method
Gross Alpha	07/16/12 17:05	500	30	3.4	pCi/L	*	jlg
Gross Beta	07/16/12 17:05	180	11	5.8	pCi/L		jlg

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Date/Time	Count	Std Dev	Efficiency	Conc	Unit	Prep Method
Radium 226, dissolved	07/12/12 9:18	1.2	0.12	0.12	pCi/L		thf

Radon-222
 SM7500-RN

Prep Method:

Parameter	Date/Time	Count	Std Dev	Efficiency	Conc	Unit	Prep Method
Radon-222	07/02/12 11:31	510	70	36	pCi/L	*	jlg

Uranium Resources Inc.

Project ID: KVD Q3 GW 2012

Sample ID: GARCIA WELL

ACZ Sample ID: **L96957-01**

Date Sampled: 09/25/12 12:45

Date Received: 09/26/12

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0030			mg/L	0.0002	0.001	10/12/12 1:12	msh
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	10/12/12 1:12	msh
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	10/08/12 18:11	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	10/08/12 18:11	aeb
Mercury, dissolved	M7470A CVAA		U		mg/L	0.0002	0.001	10/12/12 20:52	erf
Molybdenum, dissolved	M200.7 ICP	0.08			mg/L	0.01	0.05	10/08/12 18:11	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0082			mg/L	0.0001	0.0003	10/12/12 1:12	msh
Uranium, dissolved	M200.8 ICP-MS	0.905			mg/L	0.001	0.005	10/12/12 21:09	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	250		*	mg/L	10	50	10/11/12 11:13	lhb
Conductivity @25C	SM2510B	1570		*	umhos/cm	1	10	10/01/12 18:41	abm
Fluoride	SM4500F-C	0.6		*	mg/L	0.1	0.5	10/04/12 15:07	las
Lab Filtration (0.45um) & Acidification	M200.7/200.8							10/01/12 9:54	las
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							09/26/12 13:25	mla
Lab Filtration (glass fiber filter)	SOPWC050							09/26/12 14:33	abm
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.01			mg/L	0.02	0.1	11/14/12 9:56	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.01		*	mg/L	0.02	0.1	09/26/12 23:00	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	09/26/12 23:00	pjb
pH (lab)	SM4500H+ B								
pH		8.5	H		units	0.1	0.1	10/01/12 0:00	abm
pH measured at		20.0			C	0.1	0.1	10/01/12 0:00	abm
Residue, Filterable (TDS) @180C	SM2540C	940		*	mg/L	10	20	09/28/12 11:34	jad
Sulfate	D516-02 - Turbidimetric	192		*	mg/L	5	30	10/10/12 18:02	lhb

Uranium Resources Inc.

Project ID: KVD Q3 GW 2012

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L96957-01**

Date Sampled: 09/25/12 12:45

Date Received: 09/26/12

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measurement Date	Prep Date	Result	Error (d)	UCL	Units	CC	Analysis
Gross Alpha	10/02/12 17:01		490	29	3.3	pCi/L		mla
Gross Beta	10/02/12 17:01		130	8.4	5	pCi/L		mla

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measurement Date	Prep Date	Result	Error (d)	UCL	Units	CC	Analysis
Radium 226, dissolved	10/09/12 0:10		1.1	0.13	0.15	pCi/L		thf

Radon-222

Prep Method:

SM7500-RN

Parameter	Measurement Date	Prep Date	Result	Error (d)	UCL	Units	CC	Analysis
Radon-222	09/27/12 16:09		170	40	24	pCi/L	*	jjg

Uranium Resources Inc.

Project ID: KVD Q4 GW 2012
Sample ID: GARCIA WELL

ACZ Sample ID: **L98488-01**
Date Sampled: 12/20/12 09:35
Date Received: 12/26/12
Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0027			mg/L	0.0002	0.001	01/10/13 6:43	pmc
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	01/10/13 6:43	pmc
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	01/03/13 0:19	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	01/03/13 0:19	jjc
Mercury, dissolved	M7470A CVA		U		mg/L	0.0002	0.001	01/03/13 14:05	mfm
Molybdenum, dissolved	M200.7 ICP	0.08			mg/L	0.01	0.05	01/03/13 0:19	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0064			mg/L	0.0001	0.0003	01/10/13 6:43	pmc
Uranium, dissolved	M200.8 ICP-MS	1.070			mg/L	0.001	0.005	01/08/13 3:27	pmc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	250	*		mg/L	10	50	01/08/13 15:35	mpb
Conductivity @25C	SM2510B	1540	*		umhos/cm	1	10	12/27/12 1:51	las
Fluoride	SM4500F-C	0.6	*		mg/L	0.1	0.5	01/04/13 11:27	abm
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							12/26/12 15:52	mla
Lab Filtration (0.45um) & Acidification	M200.7/200.8							12/26/12 18:15	las
Lab Filtration (glass fiber filter)	SOPWC050							12/26/12 15:16	abm
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.83	H		mg/L	0.02	0.1	01/15/13 15:37	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.83	H	*	mg/L	0.02	0.1	12/28/12 22:32	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.01	0.05	12/28/12 22:32	pjb
pH (lab)	SM4500H+ B								
pH		8.4	H		units	0.1	0.1	12/27/12 0:00	las
pH measured at		20.0			C	0.1	0.1	12/27/12 0:00	las
Residue, Filterable (TDS) @180C	SM2540C	930	*		mg/L	10	20	12/26/12 15:32	abm
Sulfate	D516-02 - Turbidimetric	199	*		mg/L	5	30	01/08/13 13:15	mpb

Uranium Resources Inc.

Project ID: KVD Q4 GW 2012
 Sample ID: GARCIA CONCRETE TANK

ACZ Sample ID: **L98488-04**
 Date Sampled: 12/20/12 09:50
 Date Received: 12/26/12
 Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0024			mg/L	0.0002	0.001	01/10/13 6:58	pmc
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	01/10/13 6:58	pmc
Iron, dissolved	M200.7 ICP	0.02	B		mg/L	0.02	0.05	01/03/13 0:35	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	01/03/13 0:35	jjc
Mercury, dissolved	M7470A CVA		U		mg/L	0.0002	0.001	01/03/13 14:16	mfm
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	01/03/13 0:35	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0061			mg/L	0.0001	0.0003	01/10/13 6:58	pmc
Uranium, dissolved	M200.8 ICP-MS	0.0077			mg/L	0.0001	0.0005	01/10/13 6:58	pmc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	260	*		mg/L	10	50	01/08/13 15:36	mpb
Conductivity @25C	SM2510B	1520	*		umhos/cm	1	10	12/27/12 2:18	las
Fluoride	SM4500F-C	0.5	*		mg/L	0.1	0.5	01/04/13 11:49	abm
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							12/26/12 16:45	mfa
Lab Filtration (0.45um) & Acidification	M200.7/200.8							12/26/12 18:30	las
Lab Filtration (glass fiber filter)	SOPWC050							12/26/12 15:20	abm
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	3.55	H		mg/L	0.02	0.1	01/15/13 15:37	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	3.55	H	*	mg/L	0.02	0.1	12/28/12 22:38	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.01	0.05	12/28/12 22:38	pjb
pH (lab)	SM4500H+ B								
pH		8.5	H		units	0.1	0.1	12/27/12 0:00	las
pH measured at		20.0			C	0.1	0.1	12/27/12 0:00	las
Residue, Filterable (TDS) @180C	SM2540C	940	*		mg/L	10	20	12/26/12 15:36	abm
Sulfate	D516-02 - Turbidimetric	240	*		mg/L	20	100	01/08/13 13:46	mpb

Uranium Resources Inc.

Project ID: KVD Q4 GW 2012

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L98488-01**

Date Sampled: 12/20/12 9:35

Date Received: 12/26/12

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Count	Unit	Units	Recovery
Gross Alpha	01/14/13 9:56		570	32	3.5	pCi/L	mla
Gross Beta	01/14/13 9:56		260	12	5.6	pCi/L	mla

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Count	Unit	Units	Recovery
Radium 226, dissolved	01/14/13 15:10		20	0.61	0.25	pCi/L	jjg

Radon-222

Prep Method:

SM7500-RN

Parameter	Measure Date	Prep Date	Result	Count	Unit	Units	Recovery
Radon-222	12/26/12 20:21		200	69	45	pCi/L	* jjg

Uranium Resources Inc.

Project ID: KVD Q4 GW 2012
Sample ID: GARCIA CONCRETE TANK
Locator:

ACZ Sample ID: **L98488-04**
Date Sampled: 12/20/12 9:50
Date Received: 12/26/12
Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	Lab	Units	QA	Analyst
Gross Alpha	01/14/13 10:01		11	4.9	3.3	pCi/L		mla
Gross Beta	01/14/13 10:01		15	4.5	5.6	pCi/L		mla

Radium 226, dissolved
M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	Lab	Units	QA	Analyst
Radium 226, dissolved	01/14/13 15:14		0.72	0.15	0.15	pCi/L		jjg

Radon-222
SM7500-RN

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	Lab	Units	QA	Analyst
Radon-222	12/26/12 21:27		93	73	52	pCi/L	*	jjg

Uranium Resources Inc.

Project ID: KVD Q1 GW 2013

Sample ID: GARCIA WELL

ACZ Sample ID: **L11272-01**

Date Sampled: 03/25/13 12:15

Date Received: 03/26/13

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	0.0030			mg/L	0.0002	0.001	04/05/13 17:45	msh
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	04/05/13 17:45	msh
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	04/03/13 19:49	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	04/03/13 19:49	jjc
Mercury, dissolved	M7470A CVAA		U	*	mg/L	0.0002	0.001	04/01/13 13:05	mfm
Molybdenum, dissolved	M200.7 ICP	0.07	B		mg/L	0.02	0.1	04/03/13 19:49	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0096			mg/L	0.0001	0.0003	04/05/13 17:45	msh
Uranium, dissolved	M200.8 ICP-MS	0.7800			mg/L	0.0005	0.003	04/08/13 20:26	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	240			mg/L	10	50	04/08/13 11:27	mpb
Conductivity @25C	SM2510B	1610			umhos/cm	1	10	03/28/13 22:32	ljr
Fluoride	SM4500F-C	0.6		*	mg/L	0.1	0.5	04/05/13 15:24	abm
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							03/28/13 9:35	mia
Lab Filtration (0.45um) & Acidification	M200.7/200.8							03/29/13 10:00	las
Lab Filtration (glass fiber filter)	SOPWC050							03/27/13 20:24	khw
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.12			mg/L	0.02	0.1	04/16/13 10:27	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.12			mg/L	0.02	0.1	03/26/13 19:08	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	03/26/13 19:08	pjb
pH (lab)	SM4500H+ B								
pH		8.4	H		units	0.1	0.1	03/28/13 0:00	ljr
pH measured at		21.0			C	0.1	0.1	03/28/13 0:00	ljr
Residue, Filterable (TDS) @180C	SM2540C	950			mg/L	10	20	03/27/13 20:12	khw
Sulfate	D516-02 - Turbidimetric	198			mg/L	5	30	04/03/13 10:30	tcd

Uranium Resources Inc.

Project ID: KVD Q1 GW 2013

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: L11272-01

Date Sampled: 03/25/13 12:15

Date Received: 03/26/13

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error (%)	Lab	Unit	Ac	Analysis
Gross Alpha	04/08/13 15:31		500	31	3.6	pCi/L		mla
Gross Beta	04/08/13 15:31		140	10	7	pCi/L		mla

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error (%)	Lab	Unit	Ac	Analysis
Radium 226, dissolved	04/09/13 13:13		1.2	0.13	0.07	pCi/L		mla

Radon-222

Prep Method:

SM7500-RN

Parameter	Measure Date	Prep Date	Result	Error (%)	Lab	Unit	Ac	Analysis
Radon-222	03/27/13 20:59		1600	75	19	pCi/L	*	thf

Uranium Resources Inc.

Project ID: KVD Q2 GW 2013

Sample ID: GARCIA WELL

ACZ Sample ID: L13010-01

Date Sampled: 06/26/13 14:40

Date Received: 06/28/13

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0033			mg/L	0.0002	0.001	07/15/13 20:10	msh
Cadmium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	07/15/13 20:10	msh
Iron, dissolved	M200.7 ICP	1	0.02	B		mg/L	0.02	0.05	07/11/13 16:08	jjc
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	07/11/13 1:54	jjc
Mercury, dissolved	M7470A CVAA	1		U	*	mg/L	0.0002	0.001	07/05/13 12:09	mfm
Molybdenum, dissolved	M200.7 ICP	1	0.07	B		mg/L	0.02	0.1	07/11/13 1:54	jjc
Selenium, dissolved	M200.8 ICP-MS	1	0.0096			mg/L	0.0001	0.0003	07/15/13 20:10	msh
Uranium, dissolved	M200.8 ICP-MS	5	0.7490			mg/L	0.0005	0.003	07/16/13 20:53	msh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	10	240		*	mg/L	10	50	07/11/13 10:03	bsu
Conductivity @25C	SM2510B	1	1650		*	umhos/cm	1	10	06/29/13 21:08	khw
Fluoride	SM4500F-C	1	0.7		*	mg/L	0.1	0.5	07/12/13 12:26	abm
Lab Filtration (0.45um filter)	SOPWC050	1							06/29/13 10:05	dcw
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)	1							07/01/13 9:00	jrd
Lab Filtration (0.45um) & Acidification	M200.7/200.8	1							07/02/13 14:30	mfm
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		1.080	H		mg/L	0.02	0.1	08/14/13 9:45	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	1.08	H	*	mg/L	0.02	0.1	08/28/13 18:02	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	06/28/13 18:02	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	06/29/13 0:00	khw
pH measured at		1	22.0			C	0.1	0.1	06/29/13 0:00	khw
Residue, Filterable (TDS) @180C	SM2540C	1	940		*	mg/L	10	20	06/30/13 10:56	mss3
Sulfate	D516-02 - Turbidimetric	20	210		*	mg/L	20	100	07/10/13 14:32	mpb

Uranium Resources Inc.

Project ID: KVD Q2 GW 2013
 Sample ID: GARCIA WELL
 Locator:

ACZ Sample ID: **L13010-01**

Date Sampled: 06/26/13 14:40

Date Received: 06/28/13

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
 M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Units	Qo	Analyst
Gross Alpha	07/12/13 17:53		500	30	3.6	pCi/L		jrd
Gross Beta	07/12/13 17:53		99	9.2	7	pCi/L	*	jrd

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Units	Qo	Analyst
Radium 226, dissolved	08/07/13 0:07		0.98	0.15	0.16	pCi/L	*	cra

Radon-222
 SM7500-RN

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Units	Qo	Analyst
Radon-222	06/28/13 16:21		1300	69	20	pCi/L	*	thf

Uranium Resources Inc.

Project ID: KVD Q3 SW 2013

Sample ID: GARCIA WELL

ACZ Sample ID: **L14672-01**

Date Sampled: 09/24/13 00:00

Date Received: 09/26/13

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0020			mg/L	0.0002	0.001	10/11/13 1:12	msh
Cadmium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/11/13 1:12	msh
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	10/03/13 14:35	jjc
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/03/13 14:35	jjc
Mercury, dissolved	M7470A CVAA	1		U		mg/L	0.0002	0.001	10/08/13 13:56	mfm
Molybdenum, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.1	10/03/13 14:35	jjc
Selenium, dissolved	M200.8 ICP-MS	1	0.0029			mg/L	0.0001	0.0003	10/11/13 1:12	msh
Uranium, dissolved	M200.8 ICP-MS	1	0.0043			mg/L	0.0001	0.0005	10/11/13 1:12	msh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	10	190		*	mg/L	10	50	10/11/13 10:03	bsu
Conductivity @25C	SM2510B	1	1180		*	umhos/cm	1	10	09/27/13 19:19	mss3
Fluoride	SM4500F-C	1	0.3	B	*	mg/L	0.1	0.5	10/09/13 14:54	abm
Lab Filtration (0.45um filter)	SOPWC050	1							10/09/13 9:10	dcw
Lab Filtration (0.45um) & Acidification	M200.7/200.8	1							09/30/13 13:39	mfm
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)	1		H					09/30/13 13:40	gdr
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.05	BH		mg/L	0.02	0.1	10/31/13 11:15	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.05	BH	*	mg/L	0.02	0.1	09/26/13 20:42	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	09/26/13 20:42	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	09/27/13 0:00	mss3
pH measured at		1	21			C	0.1	0.1	09/27/13 0:00	mss3
Residue, Filterable (TDS) @180C	SM2540C	1	694		*	mg/L	10	20	09/27/13 20:16	khw
Sulfate	D516-02 - Turbidimetric	5	151		*	mg/L	5	25	10/14/13 14:24	mia

Uranium Resources Inc.

Project ID: KVD Q3 SW 2013

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L14672-01**

Date Sampled: 09/24/13 0:00

Date Received: 09/26/13

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Units	XO	Analyst
Gross Alpha	10/17/13 13:54		41	8.4	3.1	pCi/L	*	gdr
Gross Beta	10/17/13 13:54		31	5.7	6.1	pCi/L		gdr

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Units	XO	Analyst
Radium 226, dissolved	10/28/13 0:12		3.5	0.22	0.14	pCi/L	*	jrd

Radon-222

Prep Method:

SM7500-RN

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Units	XO	Analyst
Radon-222	09/27/13 15:24		-26	25	19	pCi/L	*	thf

Uranium Resources Inc.

Project ID: KVD Q4 GW 2013

Sample ID: GARCIA WELL

ACZ Sample ID: L16109-01

Date Sampled: 12/17/13 14:25

Date Received: 12/19/13

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0012			mg/L	0.0002	0.001	01/04/14 5:19	pmc
Cadmium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	01/04/14 5:19	pmc
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	01/02/14 16:13	aeb
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	01/02/14 16:13	aeb
Mercury, dissolved	M7470A CVAA	1		U		mg/L	0.0002	0.001	12/30/13 12:55	mfm
Molybdenum, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.1	01/02/14 16:13	aeb
Selenium, dissolved	M200.8 ICP-MS	1	0.0004			mg/L	0.0001	0.0003	01/04/14 5:19	pmc
Uranium, dissolved	M200.8 ICP-MS	1	0.0007			mg/L	0.0001	0.0005	01/04/14 5:19	pmc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	10	110		*	mg/L	10	50	01/08/14 16:01	mpb
Conductivity @25C	SM2510B	1	732			umhos/cm	1	10	12/21/13 19:18	khw
Fluoride	SM4500F-C	1	0.1	B	*	mg/L	0.1	0.5	12/23/13 12:18	abm
Lab Filtration (0.45um filter)	SOPWC050	1							12/31/13 11:32	khw
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)	1							12/19/13 15:15	mss3
Lab Filtration (0.45um) & Acidification	M200.7/200.8	1							12/20/13 13:31	las
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.54	H		mg/L	0.02	0.1	01/10/14 13:18	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.54	H	*	mg/L	0.02	0.1	12/19/13 20:53	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	12/19/13 20:53	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	12/21/13 0:00	khw
pH measured at		1	23			C	0.1	0.1	12/21/13 0:00	khw
Residue, Filterable (TDS) @180C	SM2540C	1	440		*	mg/L	10	20	12/21/13 13:07	dcw
Sulfate	D516-02 - Turbidimetric	5	68.5			mg/L	5	25	01/07/14 17:02	mpb

Uranium Resources Inc.

Project ID: KVD Q4 GW 2013
Sample ID: GARCIA WELL
Locator:

ACZ Sample ID: **L16109-01**
Date Sampled: 12/17/13 14:25
Date Received: 12/19/13
Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved
M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Unit	%C	Analyst
Gross Alpha	01/08/14 11:40		1.5	2.7	2.7	pCi/L		nco
Gross Beta	01/08/14 11:40		8.7	4.1	5.5	pCi/L		nco

Radium 226, dissolved
M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Unit	%C	Analyst
Radium 226, dissolved	01/09/14 0:12		0.15	0.09	0.12	pCi/L	*	jrd

Radon-222
SM7500-RN

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error (%)	ULO	Unit	%C	Analyst
Radon-222	12/20/13 10:05		-21	30	23	pCi/L	*	thf

Uranium Resources Inc.

Project ID: KVD Q1 GW 2014

Sample ID: GARCIA WELL

ACZ Sample ID: L17524-01

Date Sampled: 03/31/14 12:30

Date Received: 04/01/14

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0025			mg/L	0.0002	0.001	04/17/14 14:24	pmc
Cadmium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	04/17/14 14:24	pmc
Iron, dissolved	M200.7 ICP	1	0.02	B		mg/L	0.02	0.05	04/08/14 16:20	jjc
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	04/08/14 16:20	jjc
Mercury, dissolved	M7470A CVAA	1		U		mg/L	0.0002	0.001	04/15/14 12:09	mfm
Molybdenum, dissolved	M200.7 ICP	1	0.08	B		mg/L	0.02	0.1	04/08/14 16:20	jjc
Selenium, dissolved	M200.8 ICP-MS	1	0.0072			mg/L	0.0001	0.0003	04/21/14 19:29	las
Uranium, dissolved	M200.8 ICP-MS	10	0.975			mg/L	0.001	0.005	04/22/14 17:11	pmc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	10	250		*	mg/L	10	50	04/15/14 16:02	mpb
Conductivity @25C	SM2510B	1	1670		*	umhos/cm	1	10	04/04/14 18:53	dcw
Fluoride	SM4500F-C	1	0.69		*	mg/L	0.05	0.3	04/11/14 13:17	dcw
Lab Filtration (0.45um filter)	SOPWC050	1							04/04/14 14:32	abd
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)	1							04/01/14 14:00	jrd
Lab Filtration (0.45um) & Acidification	M200.7/200.8	1							04/02/14 14:07	jjc
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.77			mg/L	0.02	0.1	04/23/14 10:40	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.77		*	mg/L	0.02	0.1	04/01/14 17:21	mpb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		U	*	mg/L	0.01	0.05	04/01/14 17:21	mpb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	04/04/14 0:00	dcw
pH measured at		1	23			C	0.1	0.1	04/04/14 0:00	dcw
Residue, Filterable (TDS) @180C	SM2540C	1	950		*	mg/L	10	20	04/04/14 14:07	enb
Sulfate	D516-02 - Turbidimetric	20	197		*	mg/L	20	100	04/15/14 12:03	tcd

Uranium Resources Inc.

Project ID: KVD Q1 GW 2014

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L17524-01**

Date Sampled: 03/31/14 12:30

Date Received: 04/01/14

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	04/08/14 13:58		740	44	5	pCi/L	*	nco
Gross Beta	04/08/14 13:58		170	14	9.5	pCi/L		nco

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	04/08/14 0:07		1.5	0.21	0.22	pCi/L	*	jrd

Radon-222

Prep Method:

SM7500-RN

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radon-222	04/01/14 12:27		300	35	16	pCi/L	*	thf

Uranium Resources Inc.

Project ID: KVD Q2 GW 2014

Sample ID: GARCIA WELL

ACZ Sample ID: **L19124-01**

Date Sampled: 06/26/14 14:45

Date Received: 06/27/14

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	5	0.003	B		mg/L	0.001	0.005	07/17/14 10:40	las
Cadmium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	07/15/14 15:33	msh
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	07/02/14 20:17	aeb
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	07/02/14 20:17	aeb
Mercury, dissolved	M7470A CVAA	1		U	*	mg/L	0.0002	0.001	07/02/14 15:02	mfm
Molybdenum, dissolved	M200.7 ICP	1	0.05	B		mg/L	0.02	0.1	07/02/14 20:17	aeb
Selenium, dissolved	M200.8 ICP-MS	1	0.0119			mg/L	0.0001	0.0003	07/15/14 15:33	msh
Uranium, dissolved	M200.8 ICP-MS	5	0.4188			mg/L	0.0005	0.003	07/17/14 10:40	las

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	10	246		*	mg/L	5	20	07/16/14 16:58	mpb
Conductivity @25C	SM2510B	1	1620		*	umhos/cm	1	10	07/02/14 19:22	enb
Fluoride	SM4500F-C	1	0.62		*	mg/L	0.05	0.3	07/17/14 11:42	abd
Lab Filtration (0.45um filter)	SOPWC050	1							07/07/14 11:23	nml
Lab Filtration (0.45um) & Acidification	M200.7/200.8	1							06/28/14 10:12	las
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)	1							06/30/14 18:00	jrd
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		1.75			mg/L	0.02	0.1	07/18/14 9:01	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	1.75		*	mg/L	0.02	0.1	06/27/14 19:36	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		U	*	mg/L	0.01	0.05	06/27/14 19:36	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	07/02/14 0:00	enb
pH measured at		1	22			C	0.1	0.1	07/02/14 0:00	enb
Residue, Filterable (TDS) @180C	SM2540C	1	890		*	mg/L	10	20	07/01/14 10:58	ea
Sulfate	D516-02 - Turbidimetric	5	184		*	mg/L	5	25	07/14/14 12:33	bsu

Uranium Resources Inc.

Project ID: KVD Q2 GW 2014

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L19124-01**

Date Sampled: 06/26/14 14:45

Date Received: 06/27/14

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	07/14/14 0:04		270	25	4.3	pCi/L	*	bsg
Gross Beta	07/14/14 0:04		110	11	8.2	pCi/L		bsg

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	07/15/14 8:08		0.85	0.19	0.32	pCi/L		nco

Radon-222

Prep Method:

SM7500-RN

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radon-222	06/27/14 23:36		1300	65	18	pCi/L	*	mhm

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Uranium Resources Inc.

Project ID: KVD Q3 GW 2014

Sample ID: GARCIA WELL

ACZ Sample ID: L20764-01

Date Sampled: 09/25/14 13:45

Date Received: 09/26/14

Sample Matrix: *Ground Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0031			mg/L	0.0002	0.001	10/13/14 16:27	msh
Cadmium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/13/14 16:27	msh
Iron, dissolved	M200.7 ICP	1	0.04	B		mg/L	0.02	0.05	09/30/14 16:05	aeb
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	09/30/14 16:05	aeb
Mercury, dissolved	M7470A CVAA	1		U		mg/L	0.0002	0.001	10/07/14 15:27	mfm
Molybdenum, dissolved	M200.7 ICP	1	0.07	B		mg/L	0.02	0.1	09/30/14 16:05	aeb
Selenium, dissolved	M200.8 ICP-MS	1	0.0051			mg/L	0.0001	0.0003	10/13/14 16:27	msh
Uranium, dissolved	M200.8 ICP-MS	5	0.4970			mg/L	0.0005	0.003	10/14/14 20:35	msh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	10	231	*		mg/L	5	20	10/11/14 11:28	tcd
Conductivity @25C	SM2510B	1	1650	*		umhos/cm	1	10	09/27/14 5:47	enb
Fluoride	SM4500F-C	1	0.70	*		mg/L	0.05	0.3	10/03/14 14:11	enb
Lab Filtration (0.45um	SOPWC050	1							10/03/14 13:09	ea

filter)										
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)	1		H				10/03/14 14:00	thf	
Lab Filtration (0.45um) & Acidification	M200.7/200.8	1						09/26/14 15:45	jjc	
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.44			mg/L	0.02	0.1	10/28/14 12:34	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.44	*		mg/L	0.02	0.1	09/26/14 19:51	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		U	*	mg/L	0.01	0.05	09/26/14 19:51	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	09/27/14 0:00	enb
pH measured at		1	20.9			C	0.1	0.1	09/27/14 0:00	enb
Residue, Filterable (TDS) @180C	SM2540C	1	910	*		mg/L	10	20	09/30/14 11:42	djc
Sulfate	D516-02/-07 - Turbidimetric	5	191	*		mg/L	5	25	10/10/14 12:45	tcd

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Uranium Resources Inc.

Project ID: KVD Q3 GW 2014

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: L20764-01

Date Sampled: 09/25/14 13:45

Date Received: 09/26/14

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	10/06/14 0:05		200	22	4.6	pCi/L		kwl
Gross Beta	10/06/14 0:05		100	11	8.3	pCi/L		kwl

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	10/20/14 0:02		1.1	0.14	0.06	pCi/L		thf

Radon-222

Prep Method:

SM7500-RN

Parameter	Measure Date	Prop Date	Result	Error (%)	LID	Units	XQ	Analyst
Radon-222	09/27/14 0:34		140	31	18	pCi/L	*	nco

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.

REPORT DATE: JANUARY 20, 1998

IDENTIFICATION: KVD W20 GROUNDWATER
12-9-97

LABORATORY: JORDAN LABORATORIES, INC.

MAJOR AND SECONDARY CONSTITUENTS

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	20	1.00	52.00	6.34
MAGNESIUM(MG)	6.4	0.53	24.70	3.36
SODIUM(NA)	323	14.05	687.05	89.04
POTASSIUM(K)	7.8	0.20	14.40	1.27

TOTAL CATION 15.78

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CARBONATE(CO3)	0	0.00	0.00	0.00
BICARBONATE(HCO3)	309	5.06	220.62	32.21
SULFATE(SO4)	200	4.16	307.42	26.48
CHLORIDE(CL)	230	6.49	492.59	41.31
NITRATE(NO3-N)				
FLUORIDE(F)				
SILICA(SIO2)	20			
		TOTAL	1798.77	

TOTAL ION 1116
TOTAL ANION 15.71

TDS(180 C)	950
TOT ION-0.5 HCO3=	962
EC(25 C)	1650 UMHOS
EC(DIL)= 90.5 X 20.0 =	1810 UMHOS
ALK. AS CaCO3	253
PH	8.12

ACCURACY CHECK
RANGE

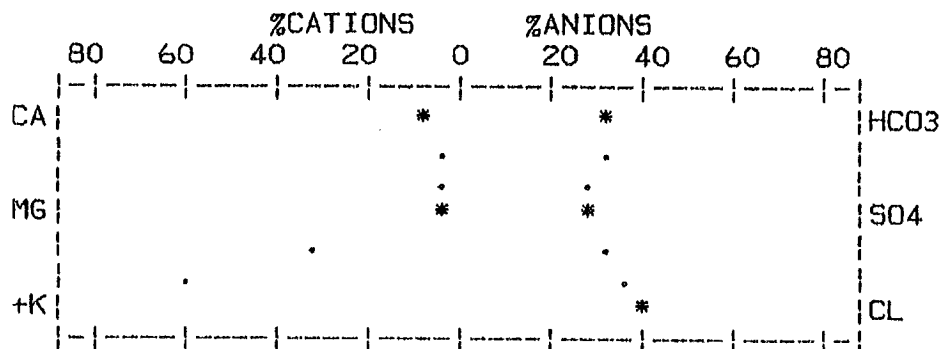
ION	1.004	(.96 TO 1.04)
TDS	0.988	(.90 TO 1.10)
EC	1.006	(.95 TO 1.05)

RADIATION-PICOCURIES/LITER

GROSS ALPHA	106	+/-	10
GROSS BETA	68	+/-	6
RADIUM 226	1.2	+/-	0.1

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)		MANGANESE(MN)		VANADIUM(V)	
BARIUM(BA)		MERCURY(HG)		ZINC(ZN)	
CADMIUM(CD)		MOLY.(MO)		BORON(B)	
CHROM.(CR)		NICKEL(NI)		AMMONIA-N	
COPPER(CU)		SELENIUM(SE)			
IRON(FE)		SILVER(AG)			
LEAD(PB)		URANIUM(U)	0.175		



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB.NO:M35-14117

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
October 21, 1997

URI, INC.
12750 Merit Drive, Suite 1020, LB12
Dallas, Texas 75251

Report of Analysis

Identification: KVD W20

8-29-97

Method Number		Analyst	Analysis Date
ASTM D2907-83	Uranium (Natural), mg/L ----- 0.154	Owen	09-18-97
SW-846 9310	Gross Alpha Activity, pci/L -- 77 Counting Error, pci/L -- +/- 8	Chapa	09-12-97
SW-846 9310	Gross Beta Activity, pci/L --- 39 Counting Error, pci/L -- +/- 4	Chapa	09-12-97
SM 7500-Ra C.	Radium 226, pci/L ----- 0.4 Counting Error, pci/L -- +/- 0.1	Strauss	09-11-97

Lab. No. M35-10353

Respectfully Submitted,

Carl F. Crownover, Pres.

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.
IDENTIFICATION: KVD W20
-- -- -- 8-29-97
LABORATORY: JORDAN LABORATORIES, INC.

REPORT DATE: OCTOBER 21, 1997

MAJOR AND SECONDARY CONSTITUENTS

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	19	0.95	49.40	6.00
MAGNESIUM(MG)	6.6	0.54	25.16	3.41
SODIUM(NA)	325	14.14	691.45	89.32
POTASSIUM(K)	7.9	0.20	14.40	1.26

TOTAL CATION 15.83

CARBONATE(CO3)	0	0.00	0.00	0.00
BICARBONATE(HCO3)	305	5.00	218.00	32.43
SULFATE(SO4)	190	3.96	292.64	25.68
CHLORIDE(CL)	229	6.46	490.31	41.89
NITRATE(NO3-N)				
FLUORIDE(F)				
SILICA(SIO2)	19			
		TOTAL	1781.37	

TOTAL ION 1102
TOTAL ANION 15.42

ACCURACY CHECK RANGE

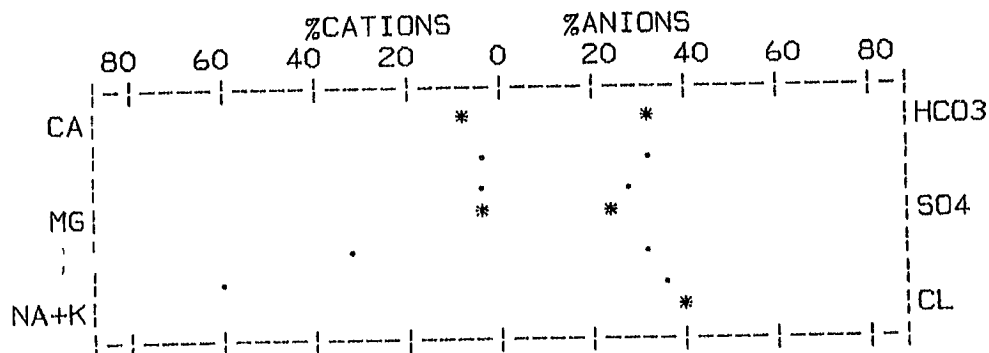
TDS(180 C) 957
TOT ION-0.5 HCO3= 949
EC(25 C) 1620 UMHOS
EC(DIL)=107.2 X 16.7 = 1790 UMHOS
ALK. AS CaCO3 250
PH 8.23

ION 1.027 (.96 TO 1.04)
TDS 1.008 (.90 TO 1.10)
EC 1.005 (.95 TO 1.05)

RADIATION-PICOCURIES/LITER
GROSS ALPHA +/-
GROSS BETA +/-
RADIUM 226 +/-

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)		MANGANESE(MN)		VANADIUM(V)	
BARIUM(BA)		MERCURY(HG)		ZINC(ZN)	
CADMIUM(CD)		MOLY.(MO)		BORON(B)	
CHROM.(CR)		NICKEL(NI)		AMMONIA-N	
COPPER(CU)		SELENIUM(SE)			
IRON(FE)		SILVER(AG)			
LEAD(PB)		URANIUM(U)			



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB.NO:M35-10353

884-0371

PO BOX 2552 78403

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
AUGUST 11, 1997

URI, INC.
12750 MERIT DRIVE, SUITE 1020, LB12
DALLAS, TEXAS 75251

REPORT OF ANALYSIS

IDENTIFICATION: KVD
WW 20
5-23-97

METHOD NUMBER		ANALYST	ANALYSIS DATE
ASTM D2907-83	URANIUM (NATURAL), MG/L ----- 0.211	KUME	06-10-97
SM 7110 B	GROSS ALPHA ACTIVITY, PCI/L -- 96 COUNTING ERROR, PCI/L -- +/- 10	CHAPA	06-12-97
SM 7110 B	GROSS BETA ACTIVITY, PCI/L --- 40 COUNTING ERROR, PCI/L -- +/- 5	CHAPA	06-12-97
SM 7500-RA C.	RADIUM 226, PCI/L ----- 0.7 COUNTING ERROR, PCI/L -- +/- 0.1	CHAPA	06-16-97

LAB. NO. M35-6794

RESPECTFULLY SUBMITTED,

CARL F. CROWNOVER, PRES.

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.
 IDENTIFICATION: KVD WW 20
 5-23-97

REPORT DATE: AUGUST 11, 1997

LABORATORY: JORDAN LABORATORIES, INC.

MAJOR AND SECONDARY CONSTITUENTS

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	21	1.05	54.60	6.53
MAGNESIUM(MG)	7.8	0.64	29.82	3.98
SODIUM(NA)	326	14.18	693.40	88.13
POTASSIUM(K)	8.5	0.22	15.84	1.37

TOTAL CATION 16.09

CARBONATE(CO3)	4	0.13	11.00	0.84
BICARBONATE(HCO3)	296	4.85	211.46	31.31
SULFATE(SO4)	193	4.02	297.08	25.95
CHLORIDE(CL)	230	6.49	492.59	41.90

NITRATE(NO3-N)

FLUORIDE(F)

SILICA(SIO2)

19

TOTAL 1805.79

TOTAL ION 1105 15.49

ACCURACY CHECK

RANGE

TDS(180 C)	943	ION	1.039	(.96 TO 1.04)
TOT ION-0.5 HCO3=	957	TDS	0.985	(.90 TO 1.10)
EC(25 C)	1570 UMHOS	EC	0.975	(.95 TO 1.05)
EC(DIL)=105.4 X 16.7 =	1760 UMHOS			

ALK. AS CAC03

PH

249

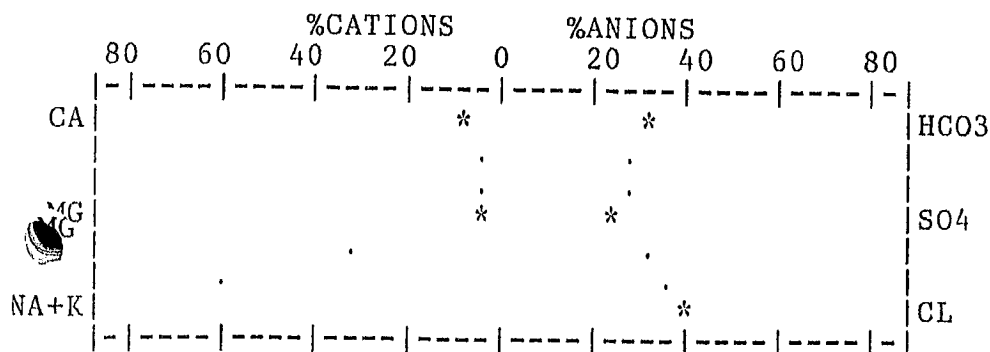
8.37

RADIATION-PICOCURIES/LITER

GROSS ALPHA	+/-
GROSS BETA	+/-
RADIUM 226	+/-

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)		MANGANESE(MN)		VANADIUM(V)	
BARIUM(BA)		MERCURY(HG)		ZINC(ZN)	
CADMIUM(CD)		MOLY.(MO)		BORON(B)	
CHROM.(CR)		NICKEL(NI)		AMMONIA-N	
COPPER(CU)		SELENIUM(SE)			
IRON(Fe)		SILVER(AG)			
LEAD(PB)		URANIUM(U)			



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB. NO: M35-6794

TEL. 361-884-0371

PO BOX 2552 78403

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
January 27, 2009

URI, INC.
405 SH 121 Bypass Bldg. A, Suite 220
Lewisville, Texas 75067

Report of Analysis


Identification: 321481-006
4th Qtr. Process Fluids 2008
SAT WF-16
1612 12-30-08

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/L -----	13.6	Moore	01-08-09
7500 Ra.C	Radium 226, pCi/L -----	128	Nixon	01-19-09
	Counting Error, pCi/L-----+/-	4		

NELAP Certificate No. T104704370-08 TX

Lab. No. M46-1548

Respectfully Submitted,


Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
January 27, 2009

URI, INC.
405 SH 121 Bypass Bldg. A, Suite 220
Lewisville, Texas 75067

Report of Analysis

Identification: 321481-005
4th Qtr. Process Fluids 2008
SAT WF-17
1600 12-30-08

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/L -----	23.4	Moore	01-08-09
7500 Ra.C	Radium 226, pCi/L -----	88	Nixon	01-19-09
	Counting Error, pCi/L-----+/-	3		

NELAP Certificate No. T104704370-08 TX

Lab. No. M46-1547

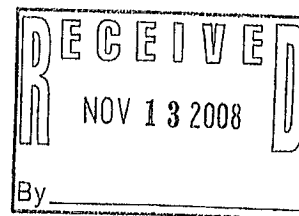
Respectfully Submitted,

Jon M. Allen - James Mathis

TEL. 361-884-0371

PO BOX 2552 78403

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
November 12, 2008



URI, INC.
405 SH 121 Bypass Bldg. A, Suite 220
Lewisville, Texas 75067

Report of Analysis

Identification: 3rd Qtr. Process Fluid KVD
RIX WF 15
11:10 AM 09-25-08

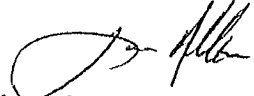
Method Number			Analyst	Analysis Date
D2907	Uranium, mg/L -----	0.672	*	10-22-08
7500 Ra.C	Radium 226, pCi/L -----	167	Nixon	10-13-08
	Counting Error, pCi/L - +/-	3		

* See attached report. Number converted from pCi/L to mg/L
(pCi/L/679mg) from Pace Analytical

NELAP Certificate No. T104704370-08 TX

Lab. No. M46-1202

Respectfully Submitted,


Jon M. Allen - James Mathis

form: S1-16

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
November 12, 2008

URI, INC.
405 SH 121 Bypass Bldg. A, Suite 220
Lewisville, Texas 75067

Report of Analysis

Identification: 3rd Qtr. Process Fluid KVD
RIX WF 16
11:50 AM 09-25-08

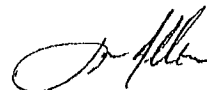
Method Number			Analyst	Analysis Date
D2907	Uranium, mg/L -----	31.4	*	10-22-08
7500 Ra.C	Radium 226, pCi/L -----	146	Nixon	10-13-08
	Counting Error, pCi/L - +/-	3		

* See attached report. Number converted from pCi/L to mg/L
(pCi/L/679mg) from Pace Analytical

NELAP Certificate No. T104704370-08 TX

Lab. No. M46-1205

Respectfully Submitted,



Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
November 12, 2008

URI, INC.
405 SH 121 Bypass Bldg. A, Suite 220
Lewisville, Texas 75067

Report of Analysis

Identification: 3rd Qtr. Process Fluid KVD
RIX WF 17
12:15 PM 09-25-08

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/L -----	0.641	*	10-22-08
7500 Ra.C	Radium 226, pCi/L -----	89	Nixon	10-13-08
	Counting Error, pCi/L - +/-	2		

* See attached report. Number converted from pCi/L to mg/L
(pCi/L/679mg) from Pace Analytical

NELAP Certificate No. T104704370-08 TX

Lab. No. M46-1207

Respectfully Submitted,



Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
July 28, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis


Identification: KVD 2nd Quarter Process Fluids
RIX WF 15
1510 6-25-08

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l -----	4.59	Moore	07-22-08
7500 Ra.C	Radium 226, pCi/l -----	208	Nixon	07-07-08
	Counting Error, pCi/l - +/-	3		

NELAP Certificate No. T104704370-08 TX

Lab. No. M46-821

Respectfully Submitted,


Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
July 28, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis


Identification: KVD 2nd Quarter Process Fluids
RIX WF 16
1525 06-25-08

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l -----	1.67	Moore	07-22-08
7500 Ra.C	Radium 226, pCi/l -----	142	Nixon	07-07-08
	Counting Error, pCi/l - +/-	3		

NELAP Certificate No. T104704370-08 TX

Lab. No. M46-824

Respectfully Submitted,


Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
July 28, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 2nd Quarter Process Fluids
RIX WF 17
1545 06-25-08

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l -----	2.04	Moore	07-22-08
7500 Ra.C	Radium 226, pCi/l -----	126	Nixon	07-07-08
	Counting Error, pCi/l - +/-	2		

NELAP Certificate No. T104704370-08 TX

Lab. No. M46-827

Respectfully Submitted,

Jon M. Allen - James Mathis

TEL. 361-884-0371

PO BOX 2552 78403

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
May 05, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

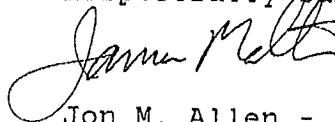
Identification: KVD Process Fluids
WF 14
1525 03-25-08

1st Qtr

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l-----	11.8	Moore	04-17-08
7500 Ra.C	Radium 226, pCi/l -----	122	Nixon	04-17-08
	Counting Error, pCi/l - +/-	2		

Lab. No. M46-402

Respectfully Submitted,



Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
May 05, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

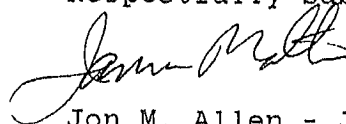
Identification: KVD Process Fluids
WF 15A
1510 03-25-08

1st Qtr

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l-----	67.2	Moore	04-25-08
7500 Ra.C	Radium 226, pCi/l -----	216	Nixon	04-17-08
	Counting Error, pCi/l - +/-	3		

Lab. No. M46-405

Respectfully Submitted,



Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
May 05, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

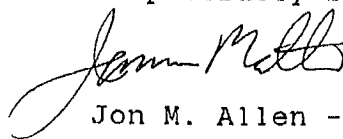
Identification: KVD Process Fluids
WF 16A
1545 03-25-08

1st Qtr

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l-----	21.0	Moore	04-25-08
7500 Ra.C	Radium 226, pCi/l -----	170	Nixon	04-17-08
	Counting Error, pCi/l - +/-	3		

Lab. No. M46-408

Respectfully Submitted,



Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
January 17, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

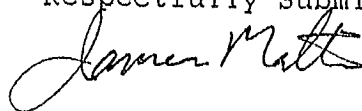
Report of Analysis

Identification: KVD 4th Qtr. 2007 Process Fluid
RIX WF 14
1516 12-26-07

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l -----	20.3	Moore	01-08-08
7500 Ra. C	Radium 226, pCi/l -----	174	Nixon	01-10-08
	Counting Error, pCi/l - +/-	10		

Lab. No. M45-2517

Respectfully Submitted,



Jon M. Allen - James Mathis

JORDAN LABORATORIES
A Division of XENCO Laboratories, Inc.
Corpus Christi, Texas
January 17, 2008

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

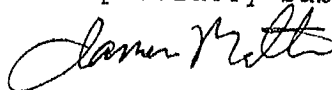
Report of Analysis

Identification: KVD 4th Qtr. 2007 Process Fluid
RIX WF 16A
1455 12-26-07

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l -----	4.58	Moore	01-08-07
7500 Ra. C	Radium 226, pCi/l -----	63	Nixon	01-10-08
	Counting Error, pCi/l - +/-	2		

Lab. No. M45-2520

Respectfully Submitted,



Jon M. Allen - James Mathis

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 17, 2007

RECEIVED

JUL 20 2007

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 2nd Qtr.
RIX-3
1500 06-20-07

Method Number			Analyst	Analysis Date
D2907	Uranium, mg/l -----	59.4	Moore	07-12-07
7500 Ra C	Radium 226, pCi/l -----	437	Nixon	07-06-07
	Counting Error, pCi/l - +/-	10		

Lab. No. M45-1544

Respectfully Submitted,



Carl F. Crownover, Pres.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
April 30, 2007

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: 1st Quarter Process Fluid
RIX-3
03-30-07

Method Number			Analyst	Analysis Date
D2907	Uranium, ppm	----- 138	Moore	04-13-07
7500 Ra.C	Radium 226, pCi/g	----- 602	Nixon	04-23-07
	Counting Error, pCi/g	- +/- 5		

Lab. No. M45-925

Respectfully Submitted,



Carl F. Crownover, Pres.

Uranium Resources Inc.

Project ID: KVD Q4 GW 2011

Sample ID: GARCIA WELL

Locator:

ACZ Sample ID: **L92474-01**

Date Sampled: 12/21/11 9:30

Date Received: 12/22/11

Sample Matrix: Ground Water

Gross Alpha & Beta, dissolved

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	XQ	Analyst
Gross Alpha	01/09/12 17:51		590	33	3.5	pCi/L	*	thf
Gross Beta	01/09/12 17:51		97	8.5	6.2	pCi/L		thf

Radium 226, dissolved

Prep Method:

M903.1

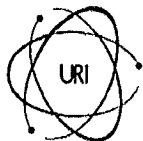
Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	XQ	Analyst
Radium 226, dissolved	01/12/12 19:26		2.2	0.33	0.4	pCi/L		zsh

Radon-222

Prep Method:

SM7500-RN

Parameter	Measure Date	Prep Date	Result	Error (%)	LLD	Units	XQ	Analyst
Radon-222	12/22/11 22:26		420	46	22	pCi/L	*	mtb

	SOP30S – SPECTROPHOTOMETRIC DETERMINATION OF URANIUM WITH 4-(2-PYRIDYLAZO)RESORCINOL (PAR)
URI, INC. October 30, 2003	Rev: 1.0

Principle

There are several pyridine-azo dyes that may be employed for the spectrophotometric determination of uranium. Although bromo-PADAP is the one most commonly used in the in-situ solution mining industry, its cost and periods of non-availability have caused laboratory personnel to switch to the PAR reagent. PAR possesses all spectrophotometric features (except for a lower molar absorptivity) of the bromo-PADAP reagent.

The PAR procedure is similar and as simple to use as the bromo-PADAP's; and the reagent is approximately 85% less costly. The uranyl-PAR complex is affected by the same factors (i.e., pH, temperature, and the concentrations of the complexing agents and interfering ions) which affect the uranyl-bromoPADAP reagent.¹²

Scope

This method can be employed for all plant and well field samples that will contain uranyl (UO_2^{++}) ions. These ions are present as the di- and tri- carbonates and chloride complexes in the samples from the plant and well field. Uranium, as dissolved uranyl peroxide, can not be determined with this procedure.

Equipment and Glassware

1. Volumetric flask, 25 ml: one per sample.
2. Pipet, various volumes: one per sample depending on the uranium concentration.
3. Dispensette dispensers: 4 (one for each reagent: two-5 ml, one 10 ml, and one-2 ml bottle tops), three with a 1 liter capacity bottle (reservoir).
4. Visible spectrophotometer: A double or single beam, grating spectrophotometer with a tungsten source may be used to measure the absorbances of the samples. If a single beam spectrophotometer is used, a blank must be run (i.e., the instrument is "zeroed" or calibrated by setting the blank's absorbance at 0.000A).

¹ Florence, T. M., and Farrar, Y., "Spectrophotometric Determination of Uranium with 4-(2-pyridylazo)resorcinol", Anal. Chem., 35(11), 1613-16 (1963)

² Johnson, D. A., and Florence, T. M., "Spectrophotometric Determination of Uranium (VI) with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol", Anal. Chem. Acta., 53, 73-79 (1971)

Chemicals and Reagents

1. Reagent alcohol - place the 10 ml Dispensette bottle top on the 1 gallon alcohol bottle.
2. Complexing reagent solution 2000 mls: Add 25 g of CyDTA, (1,2-cyclohexylenedinitrilo) tetraacetic acid, 5 g of NaF, and 65 g of sulfosalicylic acid to a 1000 ml beaker containing 800 ml of distilled water. Neutralize to pH 8.0 with 40% NaOH; dilute to 2000 ml with distilled water and transfer to the Dispensette's 1 liter reservoir and place the 5 ml bottle top on the bottle.
3. 40% NaOH solution: To 500 ml of distilled water, which is being magnetically stirred, slowly add 200 g of NaOH pellets. As soon as the solution attains room temperature, tightly stopper the container to prevent CO₂ absorption.
4. Buffer solution: Prepare a 1M triethanolamine buffer by adding 149 g (132.5 ml) of reagent-grade triethanolamine to a 1000 ml beaker containing 800 ml of distilled water. Neutralize to a pH 8.0 with HCl acid and allow to stand overnight. If the buffer's pH deviates, readjust to 8.0 with either HCl or NaOH and dilute to one liter; transfer to the Dispensette reservoir and place the 5 ml bottle top on the bottle.
5. PAR reagent, 0.060%: Dissolve 0.6 g of the PAR reagent (Aldrich catalog # 17,826-8) in 1000 ml of distilled water and transfer to the Dispensette's reservoir and place the 2 ml bottle top on it.
6. Uranium standard stock solution:
 - a. A 1000 ppm uranium standard was prepared by dissolving 2.1091 grams of uranyl nitrate, $\text{UO}_2(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$, in 1000 ml of distilled water; or
 - b. A 1000 ppm standardized uranium reference standard was purchased from Anderson Labs., Inc., Ft. Worth, Tex. (trade name: Banco).

Calibration Curve Procedure

Prior to analyzing unknown samples, prepare a standard calibration curve by carrying a series of 4-5 known uranium standards. Consult Note 1.

1. Designate one 25 ml volumetric flask as the blank flask. Add no uranium-containing solution, only the reagent volumes which will be used for the standard and sample analyses.
2. Pipette a 2 ml aliquot of standard stock solution into a 100 ml volumetric flask; make to volume with distilled water. This represents the 20 ppm secondary stock standard solution.

3. From the 20 ppm uranium standard solution, pipet 1, 3, 5, and 7 ml aliquots into individual 25 ml volumetric flasks. These volumes correspond to the uranium weights of 20, 60, 100, and 140 μg in the reaction flask.
4. To the 25 ml volumetric flasks, add in the following order and volumes, shaking the sample after each addition:
 - a. 2.5 ml of complexing reagent solution
 - b. 5.0 ml of reagent alcohol
 - c. 2.0 ml of PAR reagent solution
 - d. 2.0 ml of buffer solution
5. Add distilled water to dilute the reaction solution to the 25 ml volumetric mark for each flask; stopper the flask and mix the contents thoroughly by inverting the flask several times.
6. After mixing, allow the solution to stand for at least 5 minutes to allow color (i.e., the reaction) to develop fully.
7. Measure the absorbance at 530 nm on the spectrophotometer using a 1 cm glass cuvette. The spectrophotometer is first "zeroed" using the blank and then the standard or sample readings are made. Consult Notes 2 and 3.
8. The calibration curve is prepared by plotting absorbance values versus micrograms (μg) of uranium (as U_3O_8) in the solution, determined from the uranium standards. Determine the slope of the calibration curve, as depicted in Figure 1. Consult Note 4.

Analysis of Unknown Samples

The procedure is essentially the same as in the section entitled calibration curve procedure.

1. Perform as in 1 of the calibration curve procedure.
2. Pipette an aliquot of the sample solution; dilutions will have to be made if the sample's uranium content exceeds the upper limit, approximately 140 μg U.
3. Perform as in 4, 5, 6, and 7 of the calibration curve procedure.
4. Calculate the uranium concentration by multiplying the sample's absorbance value by the slope and dividing the resultant by the volume of sample used in the 25 ml volumetric flask. If dilutions were made, multiply the y-value calculated above by the dilution factor. Consult Notes 5 and 6.

Notes

1. Any time fresh stock solutions (i.e., PAR, complexing agent solution, buffer solution, and/or uranium standard solutions) are made, a new standard curve must be prepared.

2. Each cuvette should be washed with distilled water before starting and after concluding the series of analyses. Prior to filling the cuvette with blank, standard, or sample solution, rinse twice with reagent alcohol; this minimizes air bubble formation on the sides of the cuvette; lightly tap the cuvette to evolve-off any air bubbles.
3. For a 20 µg uranium standard (23.6 µg U₃O₈), an absorbance reading of approximately 0.27 is measured; for a 140 µg U standard (165 µg U₃O₈), 0.96A.
4. The slope can be determined by the following equation:

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

The slope y-intercept form of a straight line is:

$$y = mx + b$$

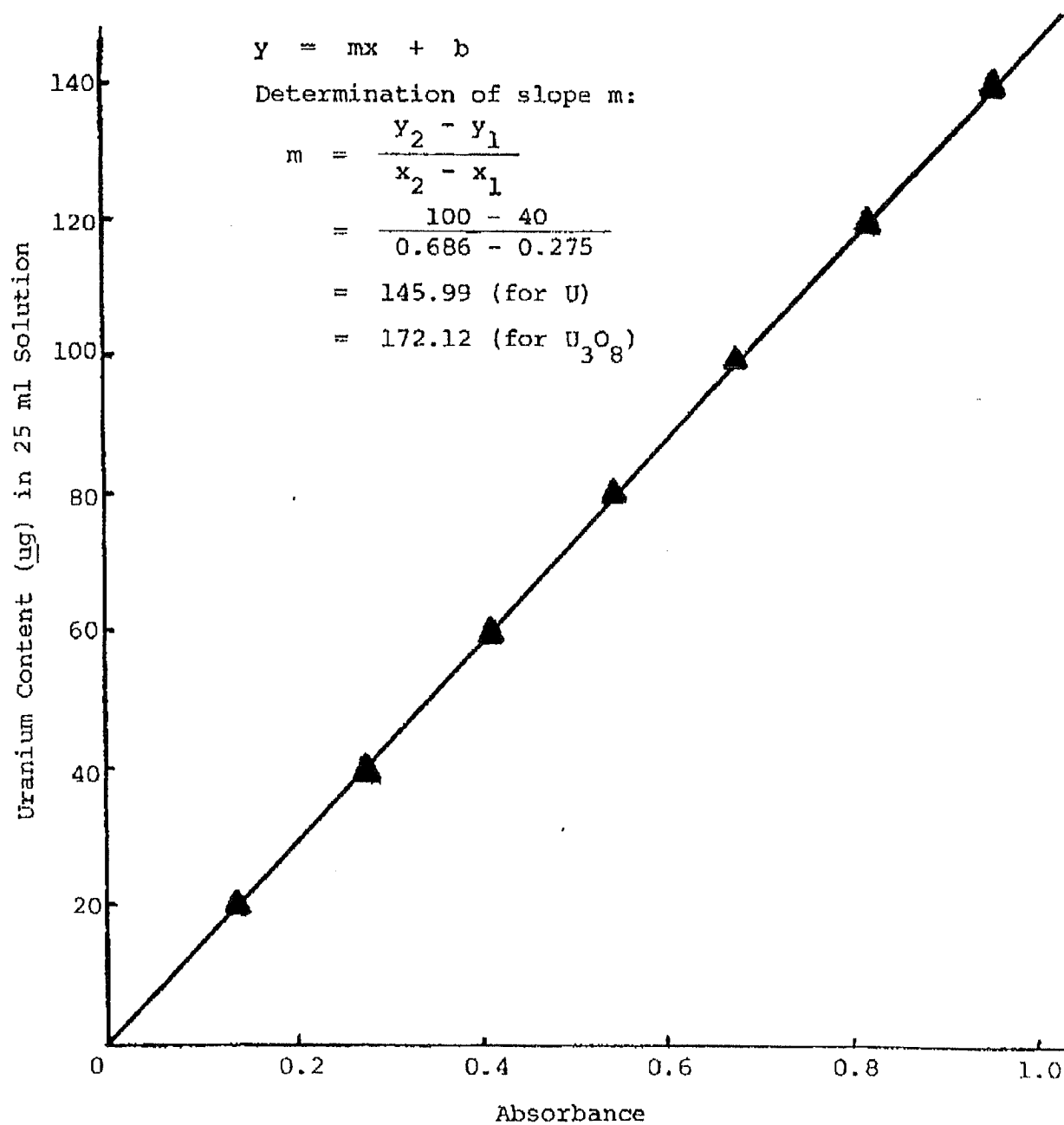
For colorimetric determinations, $b = 0$.

5. Example: From the calibration curve procedure, the slope was calculated and determined to be 172.12 and $b = 0$. The sample's procedure revealed the following: a) a 2 ml sample aliquot was used in the 25 ml volumetric flask and was taken from a 5 to 25 ml dilution (DF= 5); and b) its absorbance was measured at 0.0750.

a.	y	=	mx+b
		=	(172.12)(0.75) + 0
		=	129.09 µg U ₃ O ₈
b.	129.09 µg U ₃ O ₈ /2 ml sample volume =		64.5 µg U ₃ O ₈ /ml
c.	ppm U ₃ O ₈	=	(64.5 µg U ₃ O ₈ /ml)(DF)
		=	(64.5 µg U ₃ O ₈ /ml)(5)
		=	322.5

6. The stability of the uranyl-PAR complex is excellent over a 20 hour period. Florence and Farrar report only a 3% gradual absorbance decrease in the presence of the complexing agent. For best results, a sample or standard's absorbance should be read within 4 hours (and preferably, within 2 hours). If appreciable amounts (greater than 200 µg) of ferric iron or oxidation agents are present, the absorbance should be measured within 15 minutes.

FIGURE 1



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



**Complaint Investigation
URI, Kingsville Dome Facility
Area Permit No: UR02827**

RN102380763

**ATTACHMENT 14
Radiological Analyses Laboratory Reports**

Incident No.: 202603

URGENT

TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

TEXAS COMMISSION on
ENVIRONMENTAL QUALITY (TCEQ)

P. O. BOX 13087
AUSTIN, TEXAS 78711-3087

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance
Sample Collected From: ☒ Unrestricted Area ☐ Restricted/Controlled Area
☒ Chemical Analysis Also Performed PCA # _____ Index No _____
Water only: ☒ Acidified ☐ Filtered
☒ Not Acidified ☒ Not Filtered

Contact: M. Abbaszadeh
Phone/MC: 512-239-6078
Submitter No. MC 177

Suspected Radionuclides: U-238

Type: ☐ Soil
☐ Sediment
☐ Vegetation
☐ Wipe
☐ Other _____

Type: Water
☐ Monitor Well
☐ Baseline Well
☐ Surface Water
☒ Other Residence

Facility Category: ☐ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☒ Other Garcia Hill Community

Radiation Survey Results: BKG: 5-6 uR/hr Sample: BKG
Sample Number 4 of 6
Sample location Nazario Martinez Kitchen Faucet
Operator / Facility NA
Permit/License No NA

Notes Sample was clear with no odor.
Water supplied by STWA, Ricardo WS

I certify this sample was collected by me at 9:55 AM
on 10/14/14 and remained in my custody until
transfer to DSHS Lab
at 10:05 AM on 10/15/14

Signature: M. Abbaszadeh

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to Rad Lab
at 12:05 PM on 10-15-14

Signature: Stan Leachman

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to _____
at _____ : _____ M on _____

Signature: _____

FOR USE BY LABORATORY ONLY

Laboratory Identification No. AC69593 A

Date Received EU 10/15/2014

Condition of Seals ☐ MISC RADIOCHEM

Comments _____

Wet (as received) Weight _____

Dry Weight _____ Ash Weight _____

Notes _____

I certify this sample was constantly in the laboratory custody from the time
of receipt and after the report date listed below until transferred to the
TCEQ staff.

Report Date/Signature 10/15/14 MBP

INDICATE THE REQUIRED ANALYSIS BELOW

☒ Total Analysis ☐ TCLP ☐ Dissolved Analysis

Detection Limit Requested _____

☒ GAMMA SCAN

Radionuclide

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

ALPHA COUNT

Gross alpha	uCi/
Radium 226	uCi/
Total Uranium	ug/
Total Uranium	uCi/
Radon-222	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

BETA COUNT

Gross beta	uCi/
Tritium	uCi/
Radium-228	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

☒ ALPHA SPECTROSCOPY

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

Texas Department of State Health Services Laboratory

1100 West 49th Street
Austin, Texas 78756-3194

Environmental Sciences Branch
Radiochemical Analysis Report

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: AC69593
Sample Type: Water
Submitter: TCEQ
Submitter ID: Nazario Martinez
Kitchen faucet
TCEQ Sample ID: 4 of 6

Date Collected: 10/14/14 9:55 AM
Date Received: 10/15/14

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
(¹)Radium-226	SM 7500-Ra C	0.230	0.030	pCi/L	0.04	0.02	
(¹)Total Uranium	SM 7500-U C	2.15	0.55	µg/L	0.60	0.25	
(¹)Uranium-234	SM 7500-U C	1.05	0.22	pCi/L	0.17	0.08	
(¹)Uranium-235	SM 7500-U C	0.05	0.05	pCi/L	0.19	0.09	
(¹)Uranium-238	SM 7500-U C	0.72	0.18	pCi/L	0.14	0.07	
(¹)Total Uranium Activity	SM 7500-U C	1.82	0.45	pCi/L	0.50	0.25	
(¹) Gross Alpha	EPA 900.0	1.38	0.41	pCi/L	1.2	0.60	
(¹) Gross Beta	EPA 900.0	9.49	0.96	pCi/L	2.9	1.4	

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (L)	Batch ID	Analysis Date	Analyst	Data Reviewer
(¹)Radium-226	0.880	2.0	69328	17-Oct-14	LJ	SG
(¹)Total Uranium (µg/L)	0.770	0.5	69792	22-Oct-14	CS	SG
(¹)Uranium-234	0.770	0.5	69791	22-Oct-14	CS	SG
(¹)Uranium-235	0.770	0.5	69791	22-Oct-14	CS	SG
(¹)Uranium-238	0.770	0.5	69791	22-Oct-14	CS	SG
(¹)Total Uranium Activity	0.770	0.5	69791	22-Oct-14	CS	SG
(¹) Gross Alpha	N/A	0.2	70911	1-Dec-14	CS	SG
(¹) Gross Beta	N/A	0.2	70912	1-Dec-14	CS	SG

Gamma Spectroscopy (¹)				
Analysis Date:	15-Oct-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Batch ID:	69790			
Units:	pCi/L			
Methods:	EPA 901.1			
Weight/Volume:	3.5 L			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
K-40	18	10	34	17

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (¹) meet all TNI (2009 Standard) requirements.

Approval Signature:

Nazario Martinez
Team leader/ Group manager

Date Approved:

11/5/15

Date Reported:

11/5/15

Rev. 3 7-31-12

URGENT
TEXAS COMMISSION on
ENVIRONMENTAL QUALITY (TCEQ)

TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

P. O. BOX 13087
AUSTIN, TEXAS 78711-3087

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance
Sample Collected From: ☒ Unrestricted Area ☐ Restricted/Controlled Area
☒ Chemical Analysis Also Performed PCA # _____ Index No _____
Water only: ☐ Acidified ☒ Not Acidified ☐ Filtered ☒ Not Filtered

Contact: M. Abbaszadeh
Phone/MC: 512-239-6078
Submitter No. MC177

Suspected Radionuclides: U-238

Type: ☐ Soil
☐ Sediment
☐ Vegetation
☐ Wipe
☐ Other _____

Type: Water
☐ Monitor Well
☐ Baseline Well
☐ Surface Water
☒ Other Residence Water well

Facility Category: ☐ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☒ Other Garcia Hill Community

Radiation Survey Results: BKG: 5-6 uR/hr Sample: BKG
Sample Number 1 of 6
Sample location Garcia Hill Working well (aka WW-24)
Operator / Facility NA
Permit/License No NA

INDICATE THE REQUIRED ANALYSIS BELOW
☒ Total Analysis ☐ TCLP ☐ Dissolved Analysis

Detection Limit Requested _____

Notes Sample was collected from the pressure tank, sample was clear with no odor.

☒ GAMMA SCAN

I certify this sample was collected by me at 9:20 AM
on 10/14/14 and remained in my custody until
transfer to DSHS Lab
at 10:05 AM on 10/15/14

Signature: M. Abbaszadeh

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to Rad Lab
at 12:06 : _____ PM on 10-15-14

Signature: Stan Carls

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to _____
at _____ : _____ M on _____

Signature: _____

FOR USE BY LABORATORY ONLY

Laboratory Identification No. AC69590 A
Date Received 10/15/2014
Condition of Seals ☒ MISC RADIOCHEM
Comments _____
Wet (as received) Weight _____
Dry Weight _____ Ash Weight _____
Notes _____

I certify this sample was constantly in the laboratory custody from the time
of receipt and after the report date listed below until transferred to the
TCEQ staff.

Report Date/Signature JAN - 6 2015 mpd

Radionuclide

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

ALPHA COUNT

Gross alpha	_____	uCi/
Radium 226	_____	uCi/
Total Uranium	_____	ug/
Total Uranium	_____	uCi/
Radon-222	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

BETA COUNT

Gross beta	_____	uCi/
Tritium	_____	uCi/
Radium-228	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

☒ ALPHA SPECTROSCOPY

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

Texas Department of State Health Services Laboratory

1100 West 49th Street
Austin, Texas 78756-3194

Environmental Sciences Branch
Radiochemical Analysis Report

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: AC69590
Sample Type: Water
Submitter: TCEQ
Submitter ID: Garcia Hill
Working well (aka WW-24)
TCEQ Sample ID: 1 of 6

Date Collected: 10/14/14 9:20 AM
Date Received: 10/15/14

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
(¹)Radium-226	SM 7500-Ra C	1.33	0.06	pCi/L	0.04	0.02	
(¹)Total Uranium	SM 7500-U C	111	15	µg/L	4.4	2.2	
(¹)Uranium-234	SM 7500-U C	41.0	4.9	pCi/L	0.83	0.41	
(¹)Uranium-235	SM 7500-U C	2.5	1.1	pCi/L	1.2	0.6	
(¹)Uranium-238	SM 7500-U C	36.9	4.7	pCi/L	1.3	0.6	
(¹)Total Uranium Activity	SM 7500-U C	80	11	pCi/L	3.3	1.7	
(¹) Gross Alpha	EPA 900.0	104.7	4.9	pCi/L	3.2	1.6	
(¹) Gross Beta	EPA 900.0	46.5	2.9	pCi/L	6.3	3.1	

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (L)	Batch ID	Analysis Date	Analyst	Data Reviewer
(¹)Radium-226	0.930	2.0	69328	17-Oct-14	LJ	SG
(¹)Total Uranium (µg/L)	0.935	0.05	69792	22-Oct-14	CS	SG
(¹)Uranium-234	0.935	0.05	69791	22-Oct-14	CS	SG
(¹)Uranium-235	0.935	0.05	69791	22-Oct-14	CS	SG
(¹)Uranium-238	0.935	0.05	69791	22-Oct-14	CS	SG
(¹)Total Uranium Activity	0.935	0.05	69791	22-Oct-14	CS	SG
(¹) Gross Alpha	N/A	0.09	70911	1-Dec-14	CS	SG
(¹) Gross Beta	N/A	0.09	70912	1-Dec-14	CS	SG

Gamma Spectroscopy (¹)				
Analysis Date:	15-Oct-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Batch ID:	69790			
Units:	pCi/L			
Methods:	EPA 901.1			
Weight/Volume:	3.5 L			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
K-40	14.2	9.4	31	15
Bi-214	23.5	1.4	4.1	2.0
Pb-214	22.3	2.0	7.3	3.6

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (¹) meet all TNI (2009 Standard) requirements.

Approval Signature:

[Signature]
Team leader/ Group manager

Date Approved:

11/5/15

Date Reported:

EW - 6 2015

Rev. 3 7-31-12

Texas Department of State Health Services
LABORATORY SERVICES SECTION, MC-1947
1100 W. 49th St., Austin, Tx. 78756 (512)776-7587

Client: Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

Report ID#: 20150105R0003

Sample Collection Date: October 14, 2014

Laboratory Submittal Date: October 15, 2014

This data package contains a copy of the Case Narrative, Sample Submission Form, Analytical Results, and Quality Control (QC) Summary for the samples listed below:

TCEQ Identification	Laboratory Sample Number	Requested Analysis
Garcia Hill working well (aka WW-24) Nazario Martinez kitchen faucet (Garcia Hill)	AC69590 AC69593	Gross Alpha/Gross Beta Gamma Ra-226 Uranium isotopes

CASE NARRATIVE

Sample Submission: The laboratory received 2 water samples on October 15, 2014. Each sample was received under Chain-of-Custody in good condition. No Chain-of-Custody issues were noted.

Pre-Analytical Processing: The water samples were checked for preservation and preserved with nitric acid to a pH<2 on October 15, 2014. More than 16 hours elapsed between acidification and analysis.

Sample Processing:

Samples AC69590 and AC69593

Each water sample was scanned for gamma emitters. An aliquot of each sample was prepared for gross alpha/gross beta counting by gas proportional counting. Additional aliquots of each sample were prepared for Ra-226 analysis and Uranium analysis. The Ra-226 aliquot was analyzed by the radon emanation method. The Uranium aliquot was analyzed by alpha spectroscopy.

Holding Time: All analyses were performed within the recommended holding times.

Data Qualifiers: Data qualifiers and/or comments are used, when necessary, to provide additional information about the data. These are indicated on the Radiochemical Analysis Report and/or the Quality Assurance Report.

No qualifiers were used for these samples.

Other: Instrument response and background checks for all instruments used in these analyses met DSHS Radiochemistry Laboratory acceptance criteria.

There were no further nonconformance or unusual observations noted during the analyses.

Department of State Health Services Laboratory
Environmental Sciences Branch
Quality Assurance Report

Gross Alpha/Gross Beta QC results for AC69590 & AC69593

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results pCi/L	Blank Acceptance Limits Mean \pm 3 σ	*Matrix Spike AC66691 % Recovery	Spike Acceptance Limits Mean \pm 3 σ	*Matrix Spike Duplicate AC66691 RPD	RPD Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean \pm 3 σ
Gross Alpha	70911	12/1/14	EPA 900.0	0.05	-0.24 0.36	108	78-142	10	<20	99	90-122
Gross Beta	70912	12/1/14	EPA 900.0	0.01	-2.0 2.3	102	80-117	1	<20	102	82-118

*The sample used for the matrix spike & matrix spike duplicate was a drinking water sample (AC66691).

Ra-226 QC results for AC69590 & AC69593

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results pCi/L	Blank Acceptance Limits Mean \pm 3 σ	Matrix Spike % Recovery	Spike Acceptance Limits Mean \pm 3 σ	*Replicate Error Ratio	Replicate Error Ratio Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean \pm 3 σ
Ra-226	69328	10/17/14	SM 7500-Ra C	0.074	-0.05 0.14	103	80-113	1.03	<2	95	84-107

*The duplicate is a replicate of a fortified tap water sample & the matrix spike is a fortified tap water sample that has been spiked.

Uranium QC results for AC69590 & AC69593

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results pCi/L	Blank Acceptance Limits	*Matrix Spike % Recovery	Spike Acceptance Limits Mean $\pm 3\sigma$	*Duplicate AC69422 Replicate Error Ratio	Replicate Error Ratio Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean $\pm 3\sigma$
U-234	69791	10/22/14	SM 7500-UC	-0.02	-0.13-0.22	95	76-116	0.08	0-1.50	104	86-107
U-238	69791	10/22/14	SM 7500-UC	0.12	-0.08-0.13	101	78-123	0.26	0-1.21	106	86-109

*The duplicate is a replicate of a drinking water sample (AC69422) & the matrix spike is a tap water sample that has been spiked.

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. I affirm that this data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached deficiency reports. I further affirm to the best of my knowledge that all problems/anomalies observed by this laboratory, or if applicable, any and all subcontracted laboratories, that might affect the quality of the data have been identified in the laboratory review checklist, and no information or data have been withheld that would affect the quality of the data.

Signed: Sarah Martinez Printed Name Sarah Martinez Date: 1/5/15

NON-Potable H₂O

AC/0913
EU

A
10/31/2014

TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

MISC RADIOCHEM

TEXAS COMMISSION on
ENVIRONMENTAL QUALITY (TCEQ)

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area
Water only: ☒ Chemical Analysis Also Performed PCA # _____
☒ Acidified ☒ Filtered
☐ Not Acidified ☐ Not Filtered

Contact: M. Abbaszadeh
Phone/MC: (512) 239-6078
Submitter No. MO000070 17

Suspected Radionuclides: Uranium

Type: ☐ Soil ☐ Sediment ☐ Vegetation ☐ Wipe ☐ Other _____
Type: ☒ Water ☐ Monitor Well ☐ Baseline Well ☐ Surface Water ☐ Other _____

Facility Category: ☒ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☐ Other _____

Radiation Survey Results: BKG: 5.6 uR/hr Sample: BKG
Sample Number 1 of 12
Sample location PA3-MW-78
Operator / Facility UPRI, Kingsville Dome
Permit/License No UR02827
Notes _____

INDICATE THE REQUIRED ANALYSIS BELOW

☒ Total Analysis ☐ TCLP ☒ Dissolved Analysis

Detection Limit Requested

☒ GAMMA SCAN

Sample filtered by laboratory
WK 1.8.15

Radionuclide

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

I certify this sample was collected by me at 2:07 PM
on 10/29/14 and remained in my custody until
transfer to DSHS Lab
at 10:47 AM on 10/31/14
Signature: M. Abbaszadeh

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to Rad Lab
at 11:10 AM on 10-31-14
Signature: Shirley Corbin

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to _____
at _____ : _____ M on _____
Signature: _____

ALPHA COUNT

Gross alpha	_____	uCi/
Radium 226	_____	uCi/
Total Uranium	_____	ug/ L
Total Uranium	_____	uCi/ mL
Radon-222	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

BETA COUNT

Gross beta	_____	uCi/
Tritium	_____	uCi/
Radium-228	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

☒ ALPHA SPECTROSCOPY

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

FOR USE BY LABORATORY ONLY

Laboratory Identification No. _____
Date Received _____
Condition of Seals ☒ Satisfactory ☐ Not Satisfactory
Comments _____
Wet (as received) Weight _____
Dry Weight _____ Ash Weight _____
Notes _____

I certify this sample was constantly in the laboratory custody from the time
of receipt and after the report date listed below until transferred to the
TCEQ staff.

Report Date/Signature JAN - 9 2015 mbp

Texas Department of State Health Services Laboratory

1100 West 49th Street
Austin, Texas 78756-3194

Environmental Sciences Branch
Radiochemical Analysis Report

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: **AC70913**
Sample Type: Water
Submitter: TCEQ
Submitter ID: URI Kingsville Dome
PA3, MW-78
TCEQ Sample ID: 1 of 12

Date Collected: 10/29/14 2:07 PM
Date Received: 10/31/14

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
Radium-226	CHEM-TP-A.20	5.27E-09	5.0E-10	uCi/mL	4.2E-10	2.1E-10	
Total Uranium	CHEM-TP-A.20	3.6	1.3	µg/L	2.0	1.0	
Uranium-234	CHEM-TP-A.20	1.37E-09	4.7E-10	uCi/mL	5.6E-10	2.8E-10	
Uranium-235	CHEM-TP-A.20	-2.8E-11	2.0E-11	uCi/mL	8.5E-10	4.2E-10	
Uranium-238	CHEM-TP-A.20	1.22E-09	4.5E-10	uCi/mL	5.5E-10	2.7E-10	
Total Uranium Activity	CHEM-TP-A.20	2.56E-09	9.4E-10	uCi/mL	2.0E-09	9.8E-10	
(¹) Gross Alpha	EPA 900.0	6.8E-09	1.2E-09	uCi/mL	2.5E-09	1.2E-09	RR
(¹) Gross Beta	EPA 900.0	7.9E-09	1.6E-09	uCi/mL	6.3E-09	3.1E-09	RR

RR - Lab error in initial prep. Sample re-prepared & re-analyzed.

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (mL)	Batch ID	Analysis Date	Analyst	Data Reviewer
Radium-226	0.947	100	70392	14-Nov-14	DS	SM
Total Uranium (µg/L)	0.945	100	69933	14-Nov-14	DS	SM
Uranium-234	0.945	100	69934	14-Nov-14	DS	SM
Uranium-235	0.945	100	69934	14-Nov-14	DS	SM
Uranium-238	0.945	100	69934	14-Nov-14	DS	SM
Total Uranium Activity	0.945	100	69934	14-Nov-14	DS	SM
(¹) Gross Alpha	N/A	70	71148	17-Dec-14	CS	SM
(¹) Gross Beta	N/A	70	71149	17-Dec-14	CS	SM

Gamma Spectroscopy (¹)				
Analysis Date:	6-Nov-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Batch ID:	69935			
Units:	uCi/mL			
Methods:	DOE GA-01-R			
Weight/Volume:	3500 mL			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
K-40	1.48E-08	9.7E-09	3.2E-08	1.6E-08
Tl-208	1.45E-09	7.9E-10	2.6E-09	1.3E-09
Bi-214	2.75E-08	1.6E-09	5.5E-09	2.7E-09
Pb-214	2.70E-08	1.7E-09	6.6E-09	3.3E-09

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (¹) meet all TNI (2009 Standard) requirements.

Approval Signature: _____

Sarah M. ...
Team leader/ Group manager

Date Approved: 11/1/15

Date Reported: JAN - 9 2015 mbp

Rev. 3 7-31-12

NON-Potable H₂O
TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

AC70914 A
EU 10/31/2014
MISC RADIOCHEM

TEXAS COMMISSION on
ENVIRONMENTAL QUALITY (TCEQ)

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area
☒ Chemical Analysis Also Performed PCA #
Water only: ☐ Acidified ☐ Filtered
☒ Not Acidified ☒ Not Filtered

Contact: M. Abdur-Rahman
Phone/MC: (512) 239-6078
Submitter No. M0000070-17

Suspected Radionuclides: Uranium

Type: ☐ Soil ☐ Sediment ☐ Vegetation ☐ Wipe ☐ Other
Type: Water ☒ Monitor Well ☐ Baseline Well ☐ Surface Water ☐ Other

Facility Category: ☒ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☐ Other

Radiation Survey Results: BKG: 5-6 uR/hr Sample: BKG
Sample Number 4 of 12
Sample location PA3, MW-AA-24
Operator / Facility URT, Kingsville Dome
Permit/License No URO2827
Notes

INDICATE THE REQUIRED ANALYSIS BELOW
☒ Total Analysis ☐ TCLP ☒ Dissolved Analysis
Detection Limit Requested

☒ GAMMA SCAN

Sample filtered by laboratory
NK 1.8.15

I certify this sample was collected by me at 11:11 AM
on 10/30/14 and remained in my custody until
transfer to DSHS
at 10:47 AM on 10/31/14

Signature: M. Abdur-Rahman

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to Rad Lab
at 11:10 AM on 10-31-14

Signature: Steve Carlsberg

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to
at : M on

Signature:

FOR USE BY LABORATORY ONLY

Laboratory Identification No.
Date Received
Condition of Seals ☐ Satisfactory ☐ Not Satisfactory
Comments
Wet (as received) Weight
Dry Weight Ash Weight
Notes

I certify this sample was constantly in the laboratory custody from the time
of receipt and after the report date listed below until transferred to the
TCEQ staff.

Report Date/Signature 11/10/14 MRP

Radionuclide
uCi/
uCi/
uCi/
uCi/
uCi/
uCi/
uCi/
uCi/
uCi/

ALPHA COUNT

Gross alpha
Radium 226
Total Uranium
Total Uranium
Radon-222
uCi/
uCi/
ug/
uCi/
uCi/
uCi/
uCi/
uCi/
uCi/

BETA COUNT

Gross beta
Tritium
Radium-228
uCi/
uCi/
uCi/
uCi/
uCi/
uCi/
uCi/

☒ ALPHA SPECTROSCOPY

uCi/
uCi/
uCi/
uCi/
uCi/
uCi/

1100 West 49th Street
Austlin, Texas 78756-3194

Texas Department of State Health Services Laboratory

Environmental Sciences Branch
Radiochemical Analysis Report

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: AC70914
Sample Type: Water
Submitter: TCEQ
Submitter ID: URI Kingsville Dome
PA3, MW-AA-24
TCEQ Sample ID: 4 of 12

Date Collected: 10/30/14 11:11 AM
Date Received: 10/31/14

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
Radium-226	CHEM-TP-A.20	4.44E-09	6.6E-10	uCi/mL	7.3E-10	3.6E-10	
Total Uranium	CHEM-TP-A.20	0.89	0.45	µg/L	2.0	1.0	
Uranium-234	CHEM-TP-A.20	3.1E-10	2.2E-10	uCi/mL	4.3E-10	2.1E-10	
Uranium-235	CHEM-TP-A.20	-1.4E-11	1.4E-11	uCi/mL	7.8E-10	3.9E-10	
Uranium-238	CHEM-TP-A.20	3.0E-10	2.2E-10	uCi/mL	5.6E-10	2.8E-10	
Total Uranium Activity	CHEM-TP-A.20	6.0E-10	4.6E-10	uCi/mL	1.8E-09	8.8E-10	
(¹) Gross Alpha	EPA 900.0	2.12E-09	8.4E-10	uCi/mL	2.8E-09	1.4E-09	RR
(¹) Gross Beta	EPA 900.0	1.13E-08	1.8E-09	uCi/mL	6.5E-09	3.2E-09	RR

RR - Lab error in initial prep. Sample re-prepared & re-analyzed.

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (mL)	Batch ID	Analysis Date	Analyst	Data Reviewer
Radium-226	0.983	100	70392	14-Nov-14	DS	SM
Total Uranium (µg/L)	0.916	100	69933	14-Nov-14	DS	SM
Uranium-234	0.916	100	69934	14-Nov-14	DS	SM
Uranium-235	0.916	100	69934	14-Nov-14	DS	SM
Uranium-238	0.916	100	69934	14-Nov-14	DS	SM
Total Uranium Activity	0.916	100	69934	14-Nov-14	DS	SM
(¹) Gross Alpha	N/A	60	71148	17-Dec-14	CS	SM
(¹) Gross Beta	N/A	60	71149	17-Dec-14	CS	SM

Gamma Spectroscopy (¹)				
Analysis Date:	7-Nov-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Units:	uCi/mL			
Methods:	DOE GA-01-R			
Weight/Volume:	3500 mL			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
Tl-208	9.4E-10	7.6E-10	2.6E-09	1.3E-09
Bi-214	6.1E-09	1.6E-09	6.1E-09	3.0E-09

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (¹) meet all TNI (2009 Standard) requirements.

Approval Signature:

David Mat...
Team leader/ Group manager

Date Approved:

11/7/15

Date Reported:

JAN - 9 2015 *mkp*

Rev. 3 7-31-12

Non-Potable H₂O

TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

AC70915
EU

A

10/31/2014

MISC RADIOCHEM



TEXAS COMMISSION on
ENVIRONMENTAL QUALITY (TCEQ)

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area

Water only: ☒ Acidified ☐ Filtered
☒ Not Acidified ☒ Not Filtered

Index No _____ Submitter No. M0000070
Suspected Radionuclides: Uranium

Type: ☐ Soil
☐ Sediment
☐ Vegetation
☐ Wipe
☐ Other _____

Type: Water
☒ Monitor Well
☐ Baseline Well
☐ Surface Water
☐ Other _____

Facility Category: ☒ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☐ Other _____

Radiation Survey Results: BKG: 5-6 uR/hr Sample: BKG
Sample Number 7 of 12
Sample location PA3, MW-84
Operator / Facility URI, Kingsville Dome
Permit/License No URO2827
Notes _____

INDICATE THE REQUIRED ANALYSIS BELOW
☒ Total Analysis ☐ TCLP ☒ Dissolved Analysis

Detection Limit Requested _____

☒ GAMMA SCAN

Sample filtered by laboratory
7K 1-8-15

I certify this sample was collected by me at 12:41 PM
on 10/30/14 and remained in my custody until
transfer to DSHS
at 10:47 AM on 10/31/14

Signature: [Signature]

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to Rad Lab
at 10:10 AM on 10-31-14

Signature: [Signature]

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to _____
at _____ : _____ M on _____

Signature: _____

FOR USE BY LABORATORY ONLY

Laboratory Identification No. _____

Date Received _____

Condition of Seals ☒ Satisfactory ☐ Not Satisfactory

Comments _____

Wet (as received) Weight _____

Dry Weight _____ Ash Weight _____

Notes _____

I certify this sample was constantly in the laboratory custody from the time
of receipt and after the report date listed below until transferred to the
TCEQ staff.

Report Date/Signature JAN - 9 2015 [Signature]

Radionuclide

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

ALPHA COUNT

Gross alpha	_____	uCi/
Radium 226	_____	uCi/
Total Uranium	_____	ug/
Total Uranium	_____	uCi/
Radon-222	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

BETA COUNT

Gross beta	_____	uCi/
Tritium	_____	uCi/
Radium-228	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

☒ ALPHA SPECTROSCOPY

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

Texas Department of State Health Services Laboratory

1100 West 49th Street
Austin, Texas 78756-3194

**Environmental Sciences Branch
Radiochemical Analysis Report**

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: **AC70915**
Sample Type: **Water**
Submitter: **TCEQ**
Submitter ID: **URI Kingsville Dome
PA3, MW-84**
TCEQ Sample ID: **7 of 12**

Date Collected: **10/30/14 12:41 PM**
Date Received: **10/31/14**

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
Radium-226	CHEM-TP-A.20	3.44E-09	4.3E-10	uCi/mL	3.6E-10	1.8E-10	
Total Uranium	CHEM-TP-A.20	0.12	0.06	ug/L	0.99	0.49	
Uranium-234	CHEM-TP-A.20	7.7E-10	3.9E-10	uCi/mL	5.2E-10	2.5E-10	
Uranium-235	CHEM-TP-A.20	2.7E-10	2.7E-10	uCi/mL	7.2E-10	3.5E-10	
Uranium-238	CHEM-TP-A.20	*ND		uCi/mL	2.2E-10	1.0E-10	
Total Uranium Activity	CHEM-TP-A.20	1.03E-09	6.5E-10	uCi/mL	1.5E-09	7.2E-10	
(¹) Gross Alpha	EPA 900.0	2.72E-09	8.9E-10	uCi/mL	2.9E-09	1.4E-09	RR
(¹) Gross Beta	EPA 900.0	1.02E-08	1.9E-09	uCi/mL	7.0E-09	3.5E-09	RR

RR - Lab error in initial prep. Sample re-prepared & re-analyzed.

*There were no counts in the U-238 region so the activity is reported as ND (Not Detected).

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (mL)	Batch ID	Analysis Date	Analyst	Data Reviewer
Radium-226	0.899	100	70392	14-Nov-14	DS	SM
Total Uranium (ug/L)	0.764	100	69933	14-Nov-14	DS	SM
Uranium-234	0.764	100	69934	14-Nov-14	DS	SM
Uranium-235	0.764	100	69934	14-Nov-14	DS	SM
Uranium-238	0.764	100	69934	14-Nov-14	DS	SM
Total Uranium Activity	0.764	100	69934	14-Nov-14	DS	SM
(¹) Gross Alpha	N/A	60	71148	17-Dec-14	CS	SM
(¹) Gross Beta	N/A	60	71149	17-Dec-14	CS	SM

Gamma Spectroscopy (¹)				
Analysis Date:	7-Nov-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Batch ID:	69935			
Units:	uCi/mL			
Methods:	DOE GA-01-R			
Weight/Volume:	3500 mL			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
Pb-212	9E-10	1.3E-09	5.1E-09	2.5E-09
Bi-214	4.99E-08	2.0E-09	4.1E-09	2.0E-09
Pb-214	4.88E-08	1.7E-09	4.6E-09	2.3E-09

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (¹) meet all TNI (2009 Standard) requirements.

Approval Signature:

[Signature]
Team leader/ Group manager

Date Approved:

11/7/15

Date Reported:

EW - 9 2005 whp

Rev. 3 7-31-12

NON-Potable H₂O

AC70916

A

10/31/2014

EU

MISC RADIOCHEM

TEXAS COMMISSION on
ENVIRONMENTAL QUALITY (TCEQ)

TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area
☒ Chemical Analysis Also Performed PCA # _____ Index No _____
Water only: ☐ Acidified ☐ Filtered
☒ Not Acidified ☒ Not Filtered

Contact: M. Abbaszadeh
Phone/MC: (512) 239-6071
Submitter No. M00000 MC-17

Suspected Radionuclides: Uranium

Type: ☐ Soil
☐ Sediment
☐ Vegetation
☐ Wipe
☐ Other _____

Type: Water
☒ Monitor Well
☐ Baseline Well
☐ Surface Water
☐ Other _____

Facility Category: ☒ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☐ Other _____

Radiation Survey Results: BKG: 5-6 UR/hr Sample: BKG
Sample Number 10 of 12
Sample location PA3, MW-85
Operator / Facility URT, Kingsville Dome
Permit/License No URO2827
Notes _____

INDICATE THE REQUIRED ANALYSIS BELOW

☒ Total Analysis ☐ TCLP ☐ Dissolved Analysis
Detection Limit Requested _____

☒ GAMMA SCAN

Radionuclide

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

I certify this sample was collected by me at 2:56 PM
on 10/30/14 and remained in my custody until
transfer to DSHS
at 10:47 AM on 10/31/14
Signature: M. Abbaszadeh

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to Rod Lida
at 10:10 AM on 10-31-14

Signature: _____

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to _____
at _____ : _____ M on _____

Signature: _____

FOR USE BY LABORATORY ONLY

Laboratory Identification No. _____
Date Received _____
Condition of Seals ☒ Satisfactory ☐ Not Satisfactory
Comments _____
Wet (as received) Weight _____
Dry Weight _____ Ash Weight _____
Notes _____

I certify this sample was constantly in the laboratory custody from the time
of receipt and after the report date listed below until transferred to the
TCEQ staff.

Report Date/Signature: 10-9-2015 nwp

ALPHA COUNT

Gross alpha	uCi/
Radium 226	uCi/
Total Uranium	ug/ L
Total Uranium	uCi/ mL
Radon-222	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

BETA COUNT

Gross beta	uCi/
Tritium	uCi/
Radium-228	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

☒ ALPHA SPECTROSCOPY

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

1100 West 49th Street
Austin, Texas 78756-3194

Texas Department of State Health Services Laboratory

Environmental Sciences Branch
Radiochemical Analysis Report

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: AC70916
Sample Type: Water
Submitter: TCEQ
Submitter ID: URI Kingsville Dome
PA3, MW-85
TCEQ Sample ID: 10 of 12

Date Collected: 10/30/14 2:56 PM
Date Received: 10/31/14

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
Radium-226	CHEM-TP-A.20	1.99E-08	1.0E-09	uCi/mL	4.8E-10	2.4E-10	
Total Uranium	CHEM-TP-A.20	126	15	µg/L	2.9	1.5	
Uranium-234	CHEM-TP-A.20	3.89E-08	4.4E-09	uCi/mL	8.0E-10	3.9E-10	
Uranium-235	CHEM-TP-A.20	1.96E-09	7.6E-10	uCi/mL	7.6E-10	3.7E-10	
Uranium-238	CHEM-TP-A.20	4.22E-08	4.9E-09	uCi/mL	8.6E-10	4.2E-10	
Total Uranium Activity	CHEM-TP-A.20	8.3E-08	1.0E-08	uCi/mL	2.4E-09	1.2E-09	
(¹) Gross Alpha	EPA 900.0	1.605E-07	6.1E-09	uCi/mL	2.7E-09	1.3E-09	RR
(¹) Gross Beta	EPA 900.0	6.16E-08	2.4E-09	uCi/mL	4.4E-09	2.2E-09	RR

RR - Lab error in initial prep. Sample re-prepared & re-analyzed.

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (mL)	Batch ID	Analysis Date	Analyst	Data Reviewer
Radium-226	0.693	100	70392	14-Nov-14	DS	SM
Total Uranium (µg/L)	0.729	100	69933	14-Nov-14	DS	SM
Uranium-234	0.729	100	69934	14-Nov-14	DS	SM
Uranium-235	0.729	100	69934	14-Nov-14	DS	SM
Uranium-238	0.729	100	69934	14-Nov-14	DS	SM
Total Uranium Activity	0.729	100	69934	14-Nov-14	DS	SM
(¹) Gross Alpha	N/A	90	71148	17-Dec-14	CS	SM
(¹) Gross Beta	N/A	90	71149	17-Dec-14	CS	SM

Gamma Spectroscopy (¹)				
Analysis Date:	12-Nov-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Batch ID:	69936			
Units:	uCi/mL			
Methods:	DOE GA-01-R			
Weight/Volume:	3500 mL			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
K-40	4E-09	1.2E-08	3.9E-08	1.9E-08
Pb-212	3.3E-09	1.4E-09	5.8E-09	2.9E-09
Bi-214	1.793E-07	4.0E-09	5.5E-09	2.7E-09
Pb-214	1.707E-07	3.7E-09	6.8E-09	3.4E-09

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (¹) meet all TNI (2009 Standard) requirements.

Approval Signature:

David M. A.
Team leader/Group manager

Date Approved:

11/7/15

Date Reported:

11/9/2015 *whp*

Rev. 3 7-31-12

Texas Department of State Health Services
LABORATORY SERVICES SECTION, MC-1947
1100 W. 49th St., Austin, Tx. 78756 (512)776-7587

Client: Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

Report ID#: 20150107R0011
Sample Collection Date: October 29, 2014
Laboratory Submittal Date: October 31, 2014

This data package contains a copy of the Case Narrative, Sample Submission Form, Analytical Results, and Quality Control (QC) Summary for the samples listed below:

TCEQ Identification	Laboratory Sample Number	Requested Analysis
PA3, MW-78; 1 of 12 PA3, MW-AA-24; 4 of 12 PA3, MW-84; 7 of 12 PA3, MW-85; 10 of 12	AC70913 AC70914 AC70915 AC70916	Gross Alpha/Gross Beta Gamma Ra-226 Uranium isotopes

CASE NARRATIVE

Sample Submission: The laboratory received 4 water samples on October 31, 2014. Each sample was received under Chain-of-Custody in good condition. No Chain-of-Custody issues were noted.

Pre-Analytical Processing: The water samples requested total analysis and were received unfiltered. The first three water samples (AC70913, AC70914, & AC70915) were first checked for preservation, then filtered, and finally, preserved with nitric acid to a pH<2 on October 31, 2014. The last water sample (AC70916) was checked for preservation and the unfiltered sample was then preserved with nitric acid to a pH<2 on November 3, 2014. More than 16 hours elapsed between acidification and analysis.

Sample Processing:

Samples AC70913, AC70914, AC70915, and AC70916

Each water sample was scanned for gamma emitters. An aliquot of each sample was prepared for gross alpha/gross beta counting by gas proportional counting. An additional aliquot of each sample was prepared for Ra-226 and Uranium analysis. The Ra-226 portion was analyzed by the radon emanation method. The Uranium portion was analyzed by alpha spectroscopy.

Holding Time: All analyses were performed within the recommended holding times.

Data Qualifiers: Data qualifiers and/or comments are used, when necessary, to provide additional information about the data. These are indicated on the Radiochemical Analysis Report and/or the Quality Assurance Report.

All samples (AC70913-AC70916) had to re-prepared for gross alpha/beta analysis due to restrictions in the counting weights required for each analysis.

Other: Instrument response and background checks for all instruments used in these analyses met DSHS Radiochemistry Laboratory acceptance criteria.

Samples AC70913, AC70914, & AC70915 were filtered before sample preservation as they were mistakenly thought to need dissolved analysis. The sample submitter was notified and decided to proceed with the testing. Sample AC70916 was not filtered before sample preservation and was analyzed as requested. There were no further nonconformance or unusual observations noted during the analyses.

Department of State Health Services Laboratory
Environmental Sciences Branch
Quality Assurance Report

Gross Alpha/Gross Beta QC results for AC70913, AC70914, AC70915, & AC70916

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results $\mu\text{Ci/mL}$	Blank Acceptance Limits Mean $\pm 3\sigma$	*Matrix Spike % Recovery	Spike Acceptance Limits Mean $\pm 3\sigma$	*Matrix Spike Duplicate RPD	RPD Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean $\pm 3\sigma$
Gross Alpha	71148	12/17/14	EPA 900.0	3.6e-10	-1.9e-10 – 3.5e-10	111	77-138	0.47	<20	101	88-117
Gross Beta	71149	12/17/14	EPA 900.0	4.9e-10	-1.3e-9 – 2.0e-9	100	88-111	19	<20	100	87-116

*The sample used for the matrix spike & matrix spike duplicate was tap water.

Ra-226 QC results for AC70913, AC70914, AC70915, & AC70916

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results $\mu\text{Ci/mL}$	Blank Acceptance Limits Mean $\pm 3\sigma$	Matrix Spike AC70914 % Recovery	Spike Acceptance Limits Mean $\pm 3\sigma$	Duplicate Error Ratio AC70913	Duplicate Error Ratio Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean $\pm 3\sigma$
Ra-226	70392	11/14/14	CHEM-TP-A.20	6.6e-10	-6.7e-10 – 1.7e-9	74	58-130	0.44	0-1.5	91	69-118

Uranium QC results for AC70913, AC70914, AC70915, & AC70916

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results $\mu\text{Ci/mL}$	Blank Acceptance Limits	Matrix Spike AC70914 % Recovery	Spike Acceptance Limits Mean $\pm 3\sigma$	Duplicate AC70913 Duplicate Error Ratio	Duplicate Error Ratio Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean $\pm 3\sigma$
U-234	69934	11/14/14	CHEM-TP-A.20	-1.4e-11	-5.8e-10-8.4e-10	97	70-126	0.43	0-0.77	107	72-117
U-238	69934	11/14/14	CHEM-TP-A.20	6.5e-11	-5.0e-10-7.5e-10	106	81-123	0.19	0-0.78	111	77-121

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. I affirm that this data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached deficiency reports. I further affirm to the best of my knowledge that all problems/anomalies observed by this laboratory, or if applicable, any and all subcontracted laboratories, that might affect the quality of the data have been identified in the laboratory review checklist, and no information or data have been withheld that would affect the quality of the data.

Signed: Sarah Martinez Printed Name Sarah Martinez Date: 1/7/15

JAN - 9 2015 ^{msp}
date reported

URGENT Non-Potable Water

TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

TEXAS COMMISSION on
ENVIRONMENTAL QUALITY (TCEQ)

P. O. BOX 13087
AUSTIN, TEXAS 78711-3087

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area

Contact: M. Abbas Zadeh
Phone/MC: (512) 239-6078/17

Water only: ☒ Chemical Analysis Also Performed ☐ PCA #
☐ Acidified ☐ Filtered
☒ Not Acidified ☒ Not Filtered

Index No _____
Suspected Radionuclides: Uranium

Submitter No. MD000070

Type: ☐ Soil
☐ Sediment
☐ Vegetation
☐ Wipe
☐ Other _____

Type: ☒ Water
☐ Monitor Well
☐ Baseline Well
☐ Surface Water
☐ Other _____

Facility Category: ☒ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☐ Other _____

Radiation Survey Results: BKG: 5-6 uR/hr Sample: BKG
Sample Number 1 of 9
Sample location PAA3, MW-AA-25
Operator / Facility URT, Kingsville Dome
Permit/License No UR02827
Notes _____

INDICATE THE REQUIRED ANALYSIS BELOW
☒ Total Analysis ☐ TCLP ☐ Dissolved Analysis
Detection Limit Requested _____

☒ GAMMA SCAN

Radionuclide

I certify this sample was collected by me at 10:26 AM
on 11/13/14 and remained in my custody until
transfer to DSHS Lab
at 11:14 AM on 11/14/14
Signature: M. Abbas Zadeh

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to Radiochem Lab
at 11:40 AM on 11/14/14
Signature: Anta Vadgama

ALPHA COUNT

Gross alpha	uCi/
Radium 226	uCi/
Total Uranium	ug/
Total Uranium	uCi/
Radon-222	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to _____
at _____ : _____ M on _____
Signature: _____

BETA COUNT

Gross beta	uCi/
Tritium	uCi/
Radium-228	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

FOR USE BY LABORATORY ONLY

Laboratory Identification No. AC72073 A
Date Received 11/14/2014
Condition of Seals ☒ S MISC RADIOCHEM
Comments _____
Wet (as received) Weight _____
Dry Weight _____ Ash Weight _____
Notes _____

☐ ALPHA SPECTROSCOPY

I certify this sample was constantly in the laboratory custody from the time
of receipt and after the report date listed below until transferred to the
TCEQ staff.

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

Report Date/Signature JAN - 9 2015 ilb

Texas Department of State Health Services Laboratory

1100 West 49th Street
Austin, Texas 78756-3194

**Environmental Sciences Branch
Radiochemical Analysis Report**

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: **AC72073**
Sample Type: Water
Submitter: TCEQ
Submitter ID: URI Kingsville Dome
PAA3, MW-AA-25
TCEQ Sample ID: 1 of 9

Date Collected: 11/13/14 10:26 AM
Date Received: 11/14/14

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
Radium-226	CHEM-TP-A.20	3.96E-09	5.7E-10	uCi/mL	5.2E-10	2.6E-10	
Total Uranium	CHEM-TP-A.20	0.46	0.25	ug/L	2.3	1.1	
Uranium-234	CHEM-TP-A.20	-1.1E-11	1.1E-11	uCi/mL	6.2E-10	3.1E-10	
Uranium-235	CHEM-TP-A.20	-3.2E-11	2.3E-11	uCi/mL	9.4E-10	4.7E-10	
Uranium-238	CHEM-TP-A.20	1.6E-10	1.7E-10	uCi/mL	6.2E-10	3.1E-10	
Total Uranium Activity	CHEM-TP-A.20	1.2E-10	2.1E-10	uCi/mL	2.2E-09	1.1E-09	
(*) Gross Alpha	EPA 900.0	5.2E-09	1.2E-09	uCi/mL	3.4E-09	1.7E-09	RR
(*) Gross Beta	EPA 900.0	9.0E-09	2.1E-09	uCi/mL	8.0E-09	4.0E-09	RR

RR - Lab error in initial prep. Sample re-prepared & re-analyzed.

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (mL)	Batch ID	Analysis Date	Analyst	Data Reviewer
Radium-226	0.861	100	70476	19-Nov-14	DS	SM
Total Uranium (ug/L)	0.848	100	70259	19-Nov-14	DS	SM
Uranium-234	0.848	100	70260	19-Nov-14	DS	SM
Uranium-235	0.848	100	70260	19-Nov-14	DS	SM
Uranium-238	0.848	100	70260	19-Nov-14	DS	SM
Total Uranium Activity	0.848	100	70260	19-Nov-14	DS	SM
(*) Gross Alpha	N/A	50	71148	17-Dec-14	CS	SM
(*) Gross Beta	N/A	50	71149	17-Dec-14	CS	SM

Gamma Spectroscopy (*)				
Analysis Date:	17-Nov-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Batch ID:	70265			
Units:	uCi/mL			
Methods:	DOE GA-01-R			
Weight/Volume:	3500 mL			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
K-40	8.8E-09	9.7E-09	3.3E-08	1.6E-08
Bi-214	4.76E-08	1.9E-09	5.8E-09	2.9E-09
Pb-214	4.31E-08	1.8E-09	6.2E-09	3.1E-09

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (*) meet all TNI (2009 Standard) requirements.

Approval Signature: Sarah Mack Date Approved: 11/15 Date Reported: JAN - 9 2015
Team leader/ Group manager

Rev. 3 7-31-12

TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

P. O. BOX 13087
AUSTIN, TEXAS 78711-3087

Contact: M. Abbas Zadeh
Phone/MC: (512) 239-6076/17

Index No. _____ Submitter No. MD000070
Suspected Radionuclides: uranium

Type: ~~Water~~ Monitor Well
Baseline Well
Surface Water
Other

Facility Category: ☒ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☐ Other

INDICATE THE REQUIRED ANALYSIS BELOW
☒ Total Analysis ☐ TCLP ☐ Dissolved Analysis
 Detection Limit Requested

☒ GAMMA SCAN

Radionuclide

I certify this sample was collected by me at 11: 57 A^M
on 11/13/14 and remained in my custody until
transfer to DSHS Lab
at 11: 14 A^M on 11/14/14
Signature: m. alharackh

I certify this sample was constantly in my custody from the time of receipt listed hereon until transferred to Radiation Chem Lab at 11 : 40 A.M. on 11-14-14

Signature: Anita V. Lagan

I certify this sample was constantly in my custody from the time of receipt listed hereon until transferred to _____ at _____ : _____ M on _____

Signature: _____

ALPHA COUNTY

Gross alpha	uCi/
Radium 226	uCi/
Total Uranium	ug/
Total Uranium	uCi/
Radon-222	uCi/
	uCi/
	uCi/
	uCi/
	uCi/
	uCi/


BETA COUNT

Gross beta	_____	uCi/
Tritium	_____	uCi/
Radium-228	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

ALPHA SPECTROSCOPY

[illegible]

FOR USE BY LABORATORY ONLY

Laboratory Identification No. **AC/2076** **A**
 Date Received **EU** **11/14/2014**
 Condition of Seals ☒ Sealed **MISC RADIOCHEM**
 Comments 
 Wet (as received) Weight _____
 Dry Weight _____ Ash Weight _____
 Notes _____

I certify this sample was constantly in the laboratory custody from the time of receipt and after the report date listed below until transferred to the TCEQ staff.

Report Date/Signature IAN - 8 2015

Texas Department of State Health Services Laboratory

1100 West 49th Street
Austin, Texas 78756-3194

Environmental Sciences Branch
Radiochemical Analysis Report

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: AC72076
Sample Type: Water
Submitter: TCEQ
Submitter ID: URI Kingsville Dome
PAA3, MW-AA-30
TCEQ Sample ID: 4 of 9

Date Collected: 11/13/14 11:57 AM
Date Received: 11/14/14

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
Radium-226	CHEM-TP-A.20	3.81E-09	6.3E-10	uCi/mL	7.4E-10	3.7E-10	
Total Uranium	CHEM-TP-A.20	3.0	1.3	µg/L	2.2	1.1	
Uranium-234	CHEM-TP-A.20	6.9E-10	3.5E-10	uCi/mL	4.7E-10	2.3E-10	
Uranium-235	CHEM-TP-A.20	-1.6E-11	1.6E-11	uCi/mL	8.6E-10	4.3E-10	
Uranium-238	CHEM-TP-A.20	1.02E-09	4.3E-10	uCi/mL	6.2E-10	3.1E-10	
Total Uranium Activity	CHEM-TP-A.20	1.70E-09	8.0E-10	uCi/mL	2.0E-09	9.7E-10	
(¹) Gross Alpha	EPA 900.0	8.3E-09	1.5E-09	uCi/mL	3.4E-09	1.7E-09	
(¹) Gross Beta	EPA 900.0	1.20E-08	2.1E-09	uCi/mL	7.7E-09	3.8E-09	

RR - Lab error in initial prep. Sample re-prepared & re-analyzed.

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (mL)	Batch ID	Analysis Date	Analyst	Data Reviewer
Radium-226	0.847	100	70476	19-Nov-14	DS	SM
Total Uranium (µg/L)	0.826	100	70259	19-Nov-14	DS	SM
Uranium-234	0.826	100	70260	19-Nov-14	DS	SM
Uranium-235	0.826	100	70260	19-Nov-14	DS	SM
Uranium-238	0.826	100	70260	19-Nov-14	DS	SM
Total Uranium Activity	0.826	100	70260	19-Nov-14	DS	SM
(¹) Gross Alpha	N/A	50	71148	17-Dec-14	CS	SM
(¹) Gross Beta	N/A	50	71149	17-Dec-14	CS	SM

Gamma Spectroscopy (¹)				
Analysis Date:	17-Nov-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Batch ID:	70265			
Units:	uCi/mL			
Methods:	DOE QA-01-R			
Weight/Volume:	3500 mL			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
Pb-212	2.6E-09	1.4E-09	5.1E-09	2.5E-09
Bi-214	7.47E-08	2.4E-09	4.8E-09	2.4E-09
Pb-214	7.76E-08	2.4E-09	6.7E-09	3.3E-09

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (¹) meet all TNI (2009 Standard) requirements.

Approval Signature:

[Signature]
Team leader/Group manager

Date Approved:

11/15

Date Reported:

JAN - 9 2015 *nubp*

Rev. 3 7-31-12

① UNKNOWN

Non-Potable Water

TCEQ RADIONUCLIDE ANALYSIS LABORATORY REPORT

TEXAS COMMISSION on
ENVIRONMENTAL QUALITY (TCEQ)

P. O. BOX 13087
AUSTIN, TEXAS 78711-3087

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area

Contact: M. Abbas Fadel
Phone/MC: (512) 239-6076/17

☒ Chemical Analysis Also Performed PCA # _____ Index No _____
Water only: ☐ Acidified ☐ Filtered
☒ Not Acidified ☒ Not Filtered

Submitter No. MD000070
Suspected Radionuclides: Uranium

Type: ☐ Soil ☐ Sediment ☐ Vegetation ☐ Wipe ☐ Other _____
Type: ☒ Water ☐ Monitor Well ☐ Baseline Well ☐ Surface Water ☐ Other _____

Facility Category: ☒ Uranium Recovery ☐ Waste Processing
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material
☐ Other _____

Radiation Survey Results: BKG-5-6UR/m Sample: BKG
Sample Number 7 of 9
Sample location PAA3, MW-86
Operator / Facility UPT, Kingsville Dome
Permit/License No URD2827
Notes _____

INDICATE THE REQUIRED ANALYSIS BELOW
☒ Total Analysis ☐ TCLP ☐ Dissolved Analysis
Detection Limit Requested _____

☒ GAMMA SCAN

Radionuclide

I certify this sample was collected by me at 2:22 PM
on 11/13/14 and remained in my custody until
transfer to DSHS Lab
at 11:14 AM on 11/14/14
Signature: M. Abbas Fadel

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to Radio Chem Lab
at 11:40 AM on 11-14-14
Signature: Anita V. Adgama

ALPHA COUNT

Gross alpha	_____	uCi/
Radium 226	_____	uCi/
Total Uranium	_____	ug/
Total Uranium	_____	uCi/
Radon-222	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

I certify this sample was constantly in my custody from the time of
receipt listed hereon until transferred to _____
at _____ : _____ M on _____
Signature: _____

BETA COUNT

Gross beta	_____	uCi/
Tritium	_____	uCi/
Radium-228	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/
_____	_____	uCi/

FOR USE BY LABORATORY ONLY

Laboratory Identification No. AC72079 A
Date Received 11/14/2014
Condition of Seals ☒ S MISC RADIOCHEM
Comments _____
Wet (as received) Weight _____
Dry Weight _____ Ash Weight _____
Notes _____

☐ ALPHA SPECTROSCOPY

I certify this sample was constantly in the laboratory custody from the time
of receipt and after the report date listed below until transferred to the
TCEQ staff.

_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/
_____	uCi/

Report Date/Signature JAN - 9 2015

Texas Department of State Health Services Laboratory

1100 West 49th Street
Austin, Texas 78758-3194

Environmental Sciences Branch
Radiochemical Analysis Report

Tel. (512) 776-7587
FAX (512) 776-7757

DSHS Sample Number: **AC72079**
Sample Type: **Water**
Submitter: **TCEQ**
Submitter ID: **URI Kingsville Dome
PAA3, MW-86**
TCEQ Sample ID: **7 of 9**

Date Collected: **11/13/14 2:22 PM**
Date Received: **11/14/14**

Analyte/ Radionuclide	Method	Activity	Combined Standard Uncertainty k=1	Units	MDA	Critical Level	Qualifiers
Radium-226	CHEM-TP-A.20	4.62E-09	5.1E-10	uCi/mL	3.9E-10	1.9E-10	
Total Uranium	CHEM-TP-A.20	11.2	2.6	µg/L	1.6	0.8	
Uranium-234	CHEM-TP-A.20	5.9E-09	1.1E-09	uCi/mL	4.4E-10	2.2E-10	
Uranium-235	CHEM-TP-A.20	2.3E-10	2.3E-10	uCi/mL	6.1E-10	3.0E-10	
Uranium-238	CHEM-TP-A.20	3.73E-09	8.5E-10	uCi/mL	4.4E-10	2.2E-10	
Total Uranium Activity	CHEM-TP-A.20	9.8E-09	2.2E-09	uCi/mL	1.5E-09	7.4E-10	
(¹) Gross Alpha	EPA 900.0	1.69E-08	1.5E-09	uCi/mL	1.9E-09	9.5E-10	RR
(¹) Gross Beta	EPA 900.0	9.5E-09	1.5E-09	uCi/mL	5.3E-09	2.6E-09	RR

RR - Lab error in initial prep. Sample re-prepared & re-analyzed.

Analyte/ Radionuclide	Tracer/ Carrier Yield	Sample Volume/Mass Used (mL)	Batch ID	Analysis Date	Analyst	Data Reviewer
Radium-226	0.930	100	70476	19-Nov-14	DS	SM
Total Uranium (µg/L)	0.899	100	70259	19-Nov-14	DS	SM
Uranium-234	0.899	100	70260	19-Nov-14	DS	SM
Uranium-235	0.899	100	70260	19-Nov-14	DS	SM
Uranium-238	0.899	100	70260	19-Nov-14	DS	SM
Total Uranium Activity	0.899	100	70260	19-Nov-14	DS	SM
(¹) Gross Alpha	N/A	80	71148	17-Dec-14	CS	SM
(¹) Gross Beta	N/A	80	71149	17-Dec-14	CS	SM

Gamma Spectroscopy (¹)				
Analysis Date:	18-Nov-14	Comments: 1. Results are Decay Corrected to Date of Sample Collection. 2. The activity and uncertainty for a radionuclide measured by gamma spectroscopy are reported only if the nuclide is detected; so the results of gamma analyses are never zero or negative. If the radionuclide of interest is not detected (ND), only the sample-specific minimum detectable activity (MDA) is reported.		
Analyst:	SM			
Data Reviewer:	SM			
Batch ID:	70265			
Units:	uCi/mL			
Methods:	DOE GA-01-R			
Weight/Volume:	3500 mL			
Analyte/ Radionuclide	Activity	Combined Standard Uncertainty k=1	MDA	Critical Level
K-40	1.7E-08	1.2E-08	4.0E-08	2.0E-08
Tl-208	7.5E-10	7.8E-10	2.6E-09	1.3E-09
Bi-214	2.964E-07	4.9E-09	6.1E-09	3.0E-09
Pb-214	2.893E-07	5.1E-09	9.2E-09	4.6E-09

The test results on this report relate only to the sample identified on this report. The test results for analytes noted (¹) meet all TNI (2009 Standard) requirements.

Approval Signature:

Sarah M...
Team leader/Group manager

Date Approved:

11/15

Date Reported:

11-9-2015 *11/15/15*

Rev. 3 7-31-12

Texas Department of State Health Services
LABORATORY SERVICES SECTION, MC-1947
1100 W. 49th St., Austin, Tx. 78756 (512)776-7587

Client: Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

Report ID#: 20150107R0012
Sample Collection Date: November 13, 2014
Laboratory Submittal Date: November 14, 2014

This data package contains a copy of the Case Narrative, Sample Submission Form, Analytical Results, and Quality Control (QC) Summary for the samples listed below:

TCEQ Identification	Laboratory Sample Number	Requested Analysis
PAA3, MW-AA-25; 1 of 9 PAA3, MW-AA-30; 4 of 9 PAA3, MW-86; 7 of 9	AC72073 AC72076 AC72079	Gross Alpha/Gross Beta Gamma Ra-226 Uranium isotopes

CASE NARRATIVE

Sample Submission: The laboratory received 3 water samples on November 14, 2014. Each sample was received under Chain-of-Custody in good condition. No Chain-of-Custody issues were noted.

Pre-Analytical Processing: The water samples were checked for preservation and preserved with nitric acid to a pH<2 on November 14, 2014. More than 16 hours elapsed between acidification and analysis.

Sample Processing:

Samples AC72073, AC72076, and AC72079

Each water sample was scanned for gamma emitters. An aliquot of each sample was prepared for gross alpha/gross beta counting by gas proportional counting. An additional aliquot of each sample was prepared for Ra-226 and Uranium analysis. The Ra-226 portion was analyzed by the radon emanation method. The Uranium portion was analyzed by alpha spectroscopy.

Holding Time: All analyses were performed within the recommended holding times.

Data Qualifiers: Data qualifiers and/or comments are used, when necessary, to provide additional information about the data. These are indicated on the Radiochemical Analysis Report and/or the Quality Assurance Report.

All samples (AC72073, AC72076, and AC72079) had to re-prepared for gross alpha/beta analysis due to restrictions in the counting weights required for each analysis.

Other: Instrument response and background checks for all instruments used in these analyses met DSHS Radiochemistry Laboratory acceptance criteria.

There were no further nonconformance or unusual observations noted during the analyses.

Department of State Health Services Laboratory
Environmental Sciences Branch
Quality Assurance Report

Gross Alpha/Gross Beta QC results for AC72073, AC72076, & AC72079

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results $\mu\text{Ci/mL}$	Blank Acceptance Limits Mean $\pm 3\sigma$	*Matrix Spike % Recovery	Spike Acceptance Limits Mean $\pm 3\sigma$	*Matrix Spike Duplicate RPD	RPD Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean $\pm 3\sigma$
Gross Alpha	71148	12/17/14	EPA 900.0	3.6e-10	-1.9e-10 – 3.5e-10	111	77-138	0.47	<20	101	88-117
Gross Beta	71149	12/17/14	EPA 900.0	4.9e-10	-1.3e-9 – 2.0e-9	100	88-111	19	<20	100	87-116

*The sample used for the matrix spike & matrix spike duplicate was tap water.

Ra-226 QC results for AC72073, AC72076, & AC72079

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results $\mu\text{Ci/mL}$	Blank Acceptance Limits Mean $\pm 3\sigma$	Matrix Spike % Recovery AC72076	Spike Acceptance Limits Mean $\pm 3\sigma$	Duplicate Error Ratio AC72073	Duplicate Error Ratio Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean $\pm 3\sigma$
Ra-226	70476	11/19/14	CHEM-TP-A.20	7.8e-10	-6.3e-10 – 1.8e-9	91	58-128	0.01	0-1.5	96	69-118

Uranium QC results for AC72073, AC72076, & AC72079

Analyte	Batch ID	Analysis Date	Analytical Method	Blank Results $\mu\text{Ci/mL}$	Blank Acceptance Limits	Matrix Spike AC72076 % Recovery	Spike Acceptance Limits Mean $\pm 3\sigma$	Duplicate AC72073 Duplicate Error Ratio	Duplicate Error Ratio Acceptance Limits	Standard Recovery %	Standard Acceptance Limits Mean $\pm 3\sigma$
U-234	70260	11/19/14	CHEM-TP-A.20	0.0	-6.3e-10-1.1e-9	96	71-126	0.50	0-0.71	88	72-117
U-238	70260	11/19/14	CHEM-TP-A.20	6.0e-11	-5.6e-10-9.9e-10	100	79-125	0.01	0-0.75	99	76-120

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. I affirm that this data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached deficiency reports. I further affirm to the best of my knowledge that all problems/anomalies observed by this laboratory, or if applicable, any and all subcontracted laboratories, that might affect the quality of the data have been identified in the laboratory review checklist, and no information or data have been withheld that would affect the quality of the data.

Signed: Sarah Martinez Printed Name Sarah Martinez Date: 11/7/15

JAN - 9 2015 mp
date reported